



ROVING FRAME

JWF1458A/1457 | JWF1436C/1446C



e-brochure

Preeminent supplier of
TEXTILE EQUIPMENT



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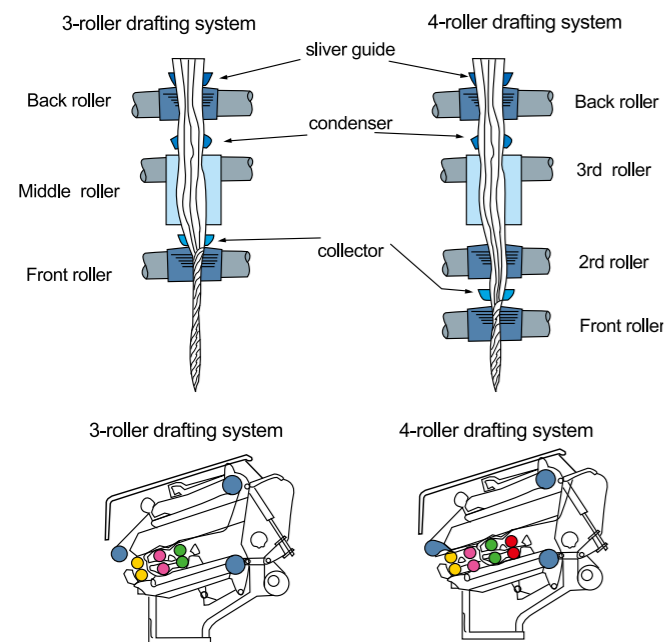
Manufacturing : Installation : Commissioning : Maintenance : Operation

EASY

MAIN FEATURES



3-roller and 4-roller double short aprons drafting system are available at option



Standard configuration:
Chinese YJ-40 Springloaded pendulum arme.
Optional configuration:
The pendulum arm of Texparts PK1550 and Roller bearingor
Suessen Leaf spring pressure pendulum arme and Roller bearing.



Feeding through slot-type elevated aluminum alloy guide

Positive drive to minimize feed & draft, and avoid yarn fault.



All-round cleaning devices

The cleaning device comprises the upper and lower cleaners of intermittent rotary velvet strip with comb, with the suction unit combining the dust suction installation behind it, for effectively removing the flying from the upper spindle rail bench and the lint on the velvet strip which is combed by the lower cleaner, as well as the accumulated flyings of the former rollers. And we add another blowing nozzle which can effectively remove the flyings from the bottoms of spindle rails and flyer shoulders.

The lint on the velvet strip that is combed by the upper cleaner is automatically drawn away by the traveling blow and suction device. During the roving process, inclusions of flying from roves are avoided and yarn faults are reduced, creating favorable conditions for delivering high-grade products. Four cleaners operating mode can be set to run cycle and intervals as needed.

JWF1458A/1457

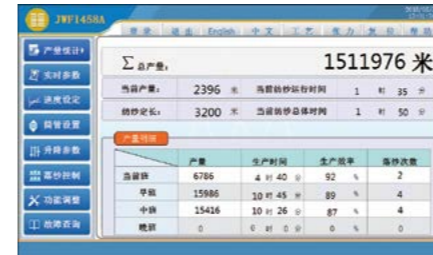
ROVING FRAME



AUTO-DOFFING ROVING FRAME

The JWF1458A/1457 AUTO-DOFFING ROVING FRAME is a full-automatic external doffer roving frame; It can be used alone or in conjunction with roving transfer system to constitute a roving and spinning unit.

The machine provides up to 204 spindles and applies to the pure spinning or blending of carded and combed cotton fibers as well as the chemical fibers (<65mm), making it the most ideal option for spinning high quality yarns.



Advanced man-machine interaction.

- Through the HMI, the state inquiry, fault finding queries.
- Network functions for user's network management, centralized management, network diagnosis and enhanced productivity

Parameter setting

- The multi-stage speed is adopted to spin and the spinning speed can be fixed on the screen. The centrifugal force for roving remains constant and the roving speed is adjusted automatically to reduce broken ends.
- Power-off protection for effectively preventing broken ends in case of sudden outage and shutdown.
- Failure data querying function for automatic retention of failure records and shutdown records.
- Stopping at preset length and location for reversing before yarns are full, stopping at preset length and location for enhanced roving efficiency and easy operation.

Multi-motor synchronous control

- Multi-motor synchronous control for constant tension spinning.
- The control system uses a four in one Huichuan inverter, so the system is stable and reliable.



New type drive

The lower spindle rail tube drives the spindles in groups, each group with 12 spindles, allowing multiple spindles to be roved. The circle-arc tooth belt drive is adopted for smooth driving and low noise.



EXTERNAL AUTO-DOFFING SYSTEM

- HIGH EFFICIENCY**
 Doffing system can be maintained and repaired without affecting normal operation of the roving system.
- HIGH SUCCESS RATE**
 High success rate of doffing and spinning in.
- THE DOFFING MODES CAN BE CHOSEN THROUGH THE HMI**

SPECIFICATIONS

Model	JWF1458A	JWF1457
Spindle pitch (mm)	216	185
Series of spindles (spindle)	96,108,120,132,144,156,168,180,192,204	140,168,196,224
Cotton fiber length (mm)	22~38	
Chemical fiber length (mm)	<65	
Density for roving (Tex)	1000~200 (1~5 metric number)	
Total draft multiple	4.2~12	
Twisting range (twist/m)	18.5~80	
Forming dimensions (mm)	Φ152×400	Φ125×400
Flier speed (rpm)	Roving speed	1300
	Mechanical speed	1500
Robot-hand direction	Left-right	
Flier form	Suspended (lower spindle blade)	
Draft form	3/4-roller 2-short apron	
Pressure form	YJ40-190x4; PK1550	
	HP-GX4010 plus	
Diameter of silver can (mm)	Φ400 or Φ500	

JWF1436C/1446C

ROVING FRAME



4 IN 1 INVERTER CPU
4 MOTORS DRIVE

Model JWF1436C, JWF1446C Roving Frame is the latest generation cone drumless version which is developed on the base of FA series with the microcomputer control. The regulating speed by inverter. The machine has the high level of mechanical and electrical integration. High-precision control system and in the form of four motor divisions drive, so that the whole of spinning process to achieve a digital control, with high yarn quality and high reliability.

The version of small package is Model JWF1446C



The conventional mechanisms of cone drum and its belt automatic resetting, winding tension compensating, builder, differential motion, reversing and driving system for lifting bobbin rail are all eliminated and replaced by four separate motors. The high precision control system is composed of computer, inverter, and the synchronous control between four motors is realized by computer via several patented math patterns.

MAIN ADVANTAGES

- Transmission gear sub-file design is conducive to motor performance into full play.
- Blowing suction cleaning system and intermittent suction system operation time and run-time user can according to their own environment and raw materials were set on the man-machine interface, to achieve the purpose of energy saving roving machine.
- Optimal design and layout of the headstock drive, headstock layout is simple, good heat dissipation, ease of installation and maintenance.
- Drawing part of the structure optimization, can effectively avoid twisting roller mechanical shock wave generated.
- Using bridge-type alignment, electrical easy installation, while reducing the electrical signal interference.
- Born head mode can be set from the interface the way to meet the needs of different users process.
- Increase spinning fiber automatic pull off function, reduce labor intensity Tenders.
- Using 4 motors drive segment, Four in One inverter drives, CPU master.
- The full length of yarn to locate parking, full of yarn by the Comptroller and computing computer controlled positioning under the premise of guaranteed fixed length can be changed to the last layer of roving in advance to ensure that every drop roving error is less than 1 meter length.
- Roving start spinning up or spinning down, users set according to demand.
- Gradually rise having spinning speed function, acceleration length can be set up to ensure the smooth running cheese.
- Large yarn automatic spin-down, spin-down the length can be set up to ensure that the roving constant spinning centrifugal force, reduce roving breakage.
- Roving twist can be set by the HMI.
- Through the HMI, the state inquiry, fault nding, I/O points queries.
- Tour cleaners operating mode can be set to run cycle and intervals as needed.
- Reserve network interface, network management and remote monitoring.

SPECIFICATIONS

Model	JWF1436C	JWF1446C	
Spindle gauge(mm)	216	185	
Nos.of spindle	96,108,120,132,144,156,168	108,120,132,148,160	
Full package(mm)	Φ 152 x 400	Φ 132 x 400	
Drafting range(Times)	4.2~12		
Twist range(T/M)	18.5~80		
Adaptable Counts	200~1000(Nm 5~1)(Spinning chemical species up 1250 Tex)		
Spinning staple(mm)	22~38	38~51	51~65
Drafting system	3-roller or 4-roller	3-roller or 4-rolle	3-roller
Max. mechanical speed (rpm)	1500		
Spinning speed (rpm)	1300		
Total rated power(kw)	33.5		
Total air exhaust(m³/h)	2000		
Orientation	R or L hand		
Cleaner	Upper and bottom positive intermittent revolving cloth and traveling cleaner.		
Dia.of can(mm)	Φ 400 or Φ 500 or Φ 600		
Line routing	Bridge wire		
Flyer	Level or non-level flyer		

ROVING-RING LINK CONVEYING SYSTEM



JWF9562A Roving-Ring Link Conveying System is the established between a rovings and spinning process can be realized on-line monitoring, information collection and analysis, automatic control and continuous delivery of three-dimensional space logistics lines, its basic function is to send the full tube rovings roving machine falling cheese to the full storage, to be issued a demand signal and then spinning the barrel full of rovings sent spinning, spinning run the empty tube back to the empty tube storage, to be roving frame will then issue a demand signal to the empty tube control roving frame, to achieve Roving-Ring Link Conveying System Union.

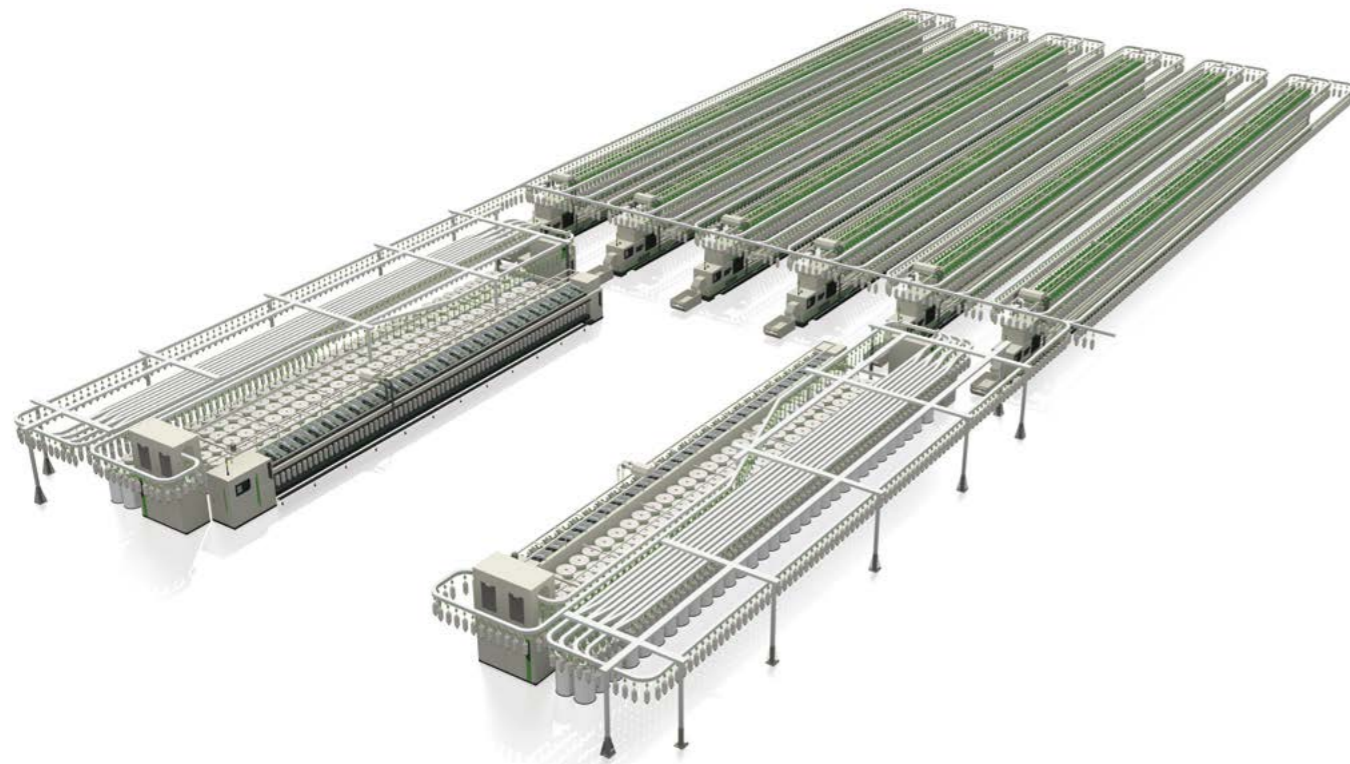
ON-LINE MONITORING
INFORMATION COLLECTION ANALYSIS
AUTOMATIC CONTROL
CONTINUOUS DELIVERY



- Automatic conveyor line, to build a three-dimensional space a full tube roving, empty tube can be directly stored in the system, save human space car, compact, orderly workshop layout.
- For centralized doffing spinning, discomfort between the machine and the machine is used with a trolley full of yarn, could easily lead to doffing fails, automatic conveying system can be replaced by a small cart.
- To avoid the semi-finished products transport links by manual intervention caused cheese between collision damage
- Automatic mode, the provincial transport yarn workers, reducing operator fatigue
- Each part of the composition in the form of diverse and interchangeable, according to user needs rational distribution, to form a more flexible space for the price, but also to facilitate the achievement of system upgrades.
- Diagnostics via Ethernet for remote monitoring, real-time understanding of device operation.
- Control system can keep track of the implementation of the operational status of transport components, fault alarm display, a timely reminder for mechanical maintenance
- The system can realize unmanned, information management, so that their production operations, management reached the international advanced level.

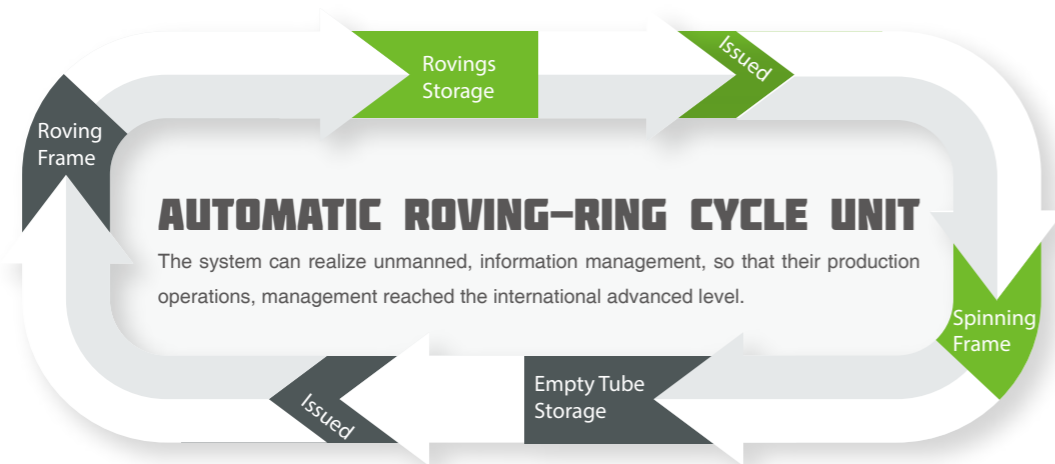
AUTOMATIC MODE

Realized
Unmanned Management



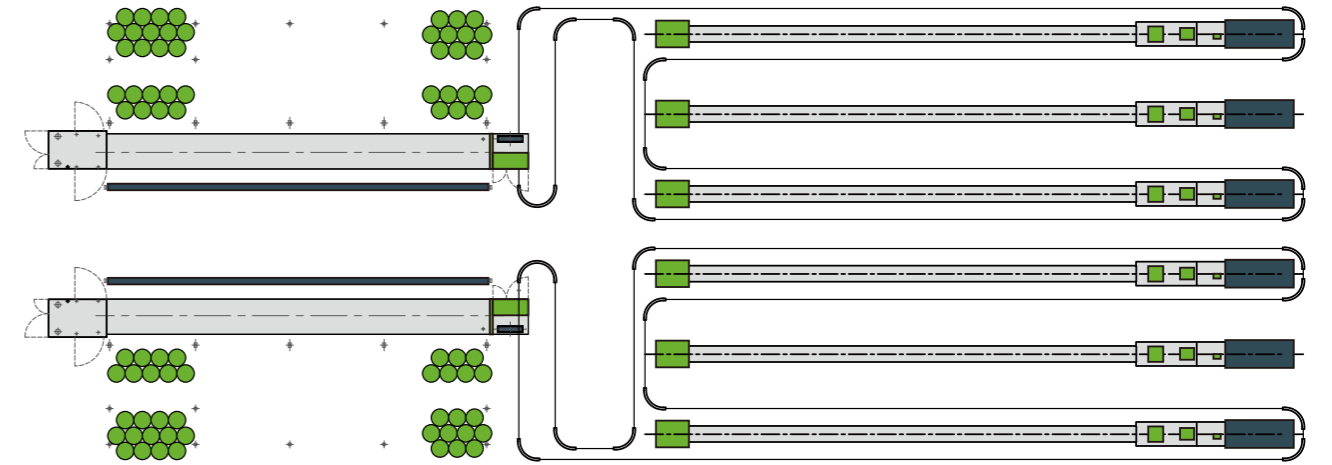
ROVING-RING LINK CONVEYING SYSTEM

Roving-Ring Link Conveying System achieves a good delivery of roving spindles. The system has a high degree of flexibility, from simple to sophisticated transportation system multi-track system can be applied.



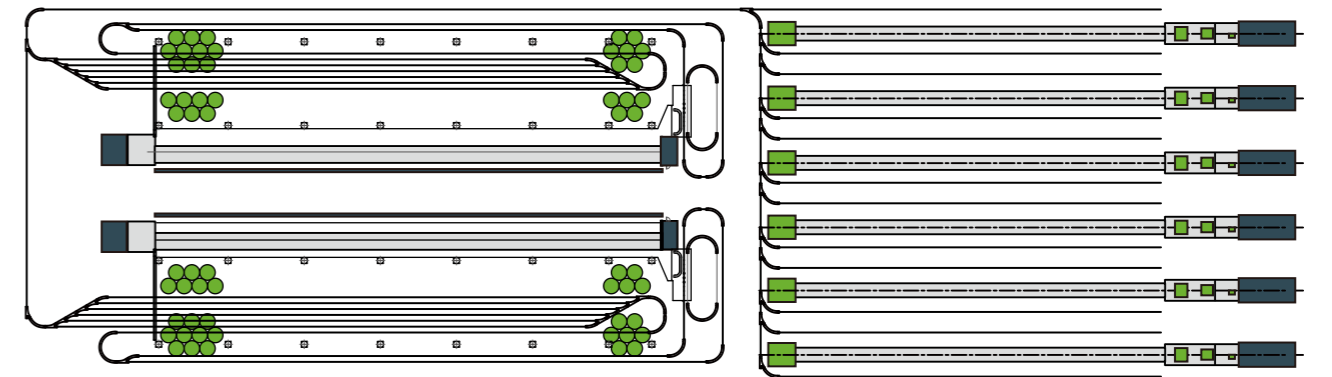
SIMPLE CYCLE UNIT LAYOUT

Each roving frame is equipped with a fixed spinning frame, rail transport and in turn be connected to form a closed loop units.



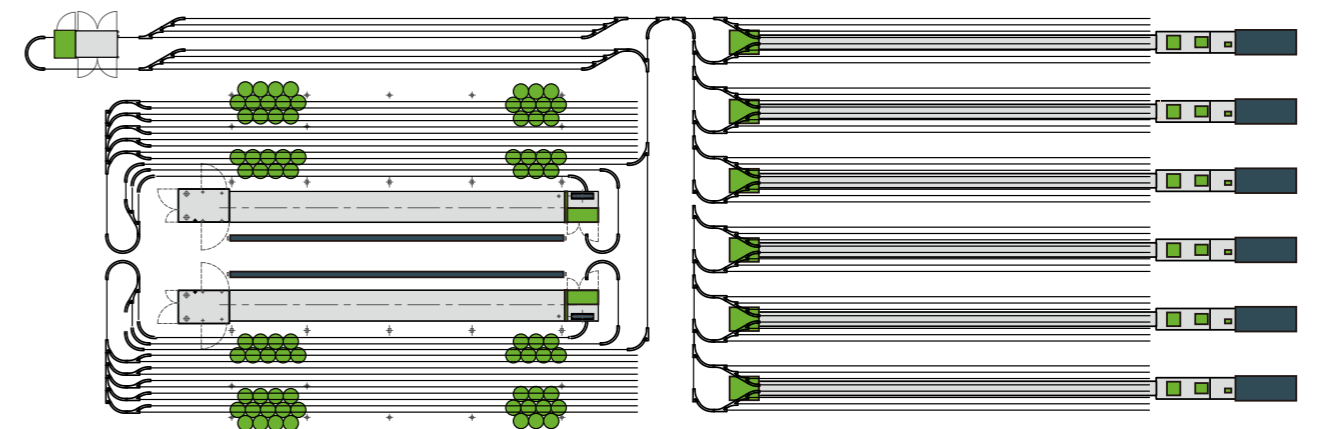
STANDARD CYCLE UNIT LAYOUT

This mode increases the yarn storage design and commutation mechanism so that each rove of roving frame product can transfer production from the yarn storage and finally send to next spinning.



AUTOMATIC CYCLE UNIT LAYOUT

The pattern is spinning creel replaced by a rail transport system, making the rovings can be used to spinning production without leaving system, eliminating the the artificial replacement process rovings and empty tubes.



ROVING WASTE OPENER



JWF0123A



JWF0123C



JWF0123 SERIES

JWF0123A is used in the cotton thickness joint track, waste will be spinning machine used roving tube yarn tail and adsorbed on the sticker on the automatic clean, directly for the use of roving machine automatic raw head. Also can be used alone as a clean roving bobbin machine.

JWF0123C is specially designed for JWF1458A/JWF1457 Auto-Doffing Roving Frame, it achieves one-to-one matching and offers optional plan for optimized layout of conveying system.

- This machine is exposed parts composed of steel and aluminum, beautiful appearance. Single spindle control, simple structure, small floor area.
- Complete machine factory, convenient installation, transportation.
- According to the user the tail yarn surplus situation, adjust the motor process.
- According to the user the factory equipment configuration, to the special design.
- And we also have selecting bobbin devices, blowing notepaper devices and cleaning devices for users to choose.

SPECIFICATIONS

Model	JWF0123A	JWF0123C
Spindle pitch (mm)	150或140	
Number of spindles (ingot)	8	3
Profile dimension(Not include the tracks)(LxWxH)(mm)	2030 x 860 x 2686	1180 x 860 x 2684
Tube size (mm)	Φ45 x 445	
Tube unwinding speed (RPM / min)	700	
Up and down motor process (mm)	483	
Guide tube bottom surface height (mm)	2200	
Power(kw)	3	1.5

JWF0122

Is suitable for withdrawal the remaining roving waste on the roving bobbin, and the unwinding tail yarn fed into the container after opening into the re-use as raw material.

SPECIFICATIONS

Production per hour		Max 1500 bobbins
Adaptable length of roving waste (m)	At prod. Ph. 380 bobbins	Max. 174
	At prod. Ph. 1500 bobbins	Max. 44
Dia. of poor package (mm)		Max. Φ170
Adaptable bobbin length (mm)		Max. 460
Total power(kw)		2.78
Overall dimension (LxWxH)(mm)	Machine	2500 x 953 x 945
	Back cotton parts	1696.5 x 870 x 2001.5

THE SPOOL CHANGEOVER PROPRIETARY TECHNOLOGY



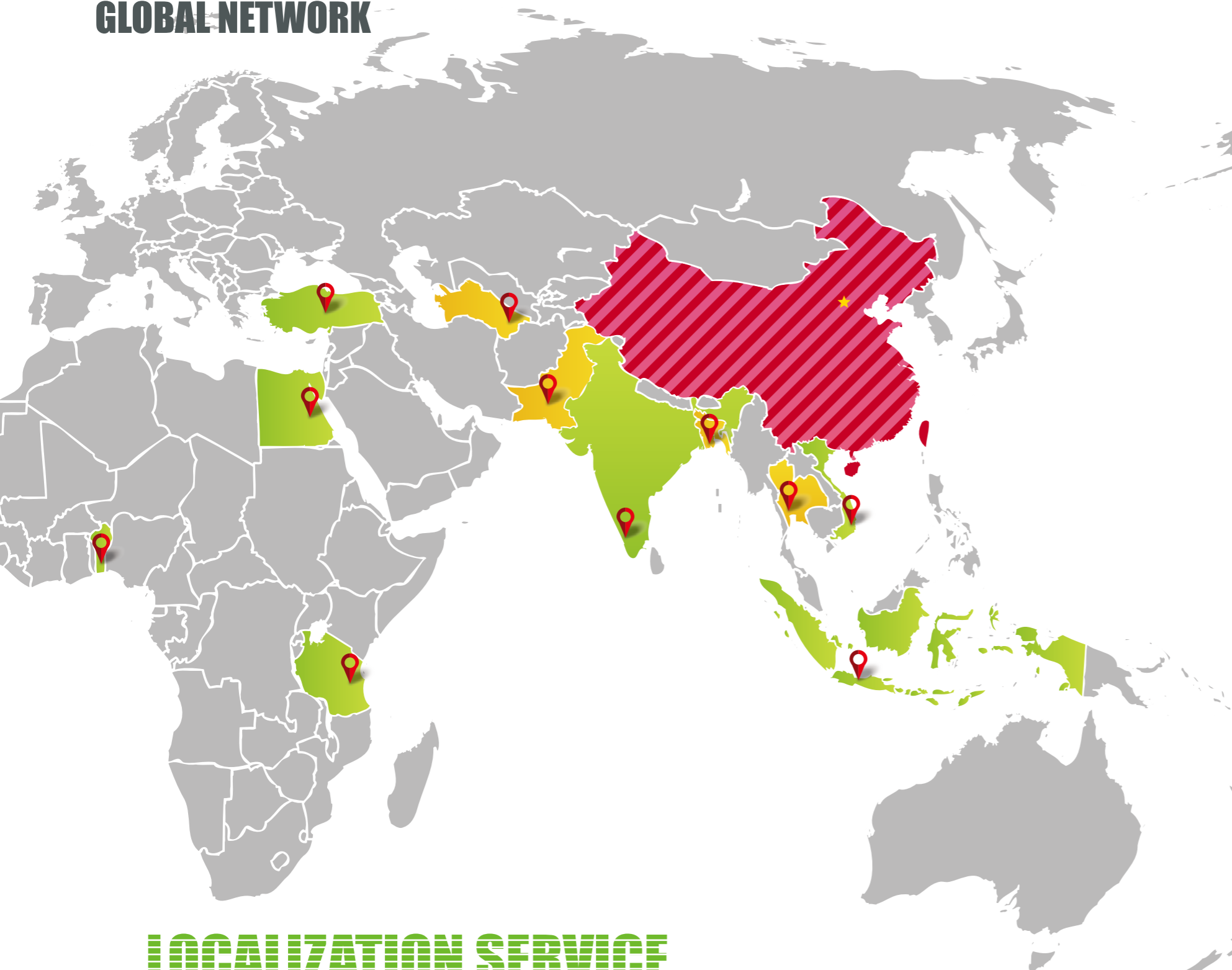
Spool changeover

Automatic changeover is achieved between the empty and full spools of full-automatic doffing roving frame.

Individually selected spool changeover device

The "Spool changeover" technology implements the replacement between full-yarn bobbins on the roving frame and empty bobbins on the transfer system; and realizes automatic transmission of bobbins by the Roving-Spinning Link transfer system.

GLOBAL NETWORK



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