

Quality makes the difference
Your reliable partner



Company Introduction

Tongda Group specializes in design, manufacturing, and marketing of a wide range of Textile machinery, it has five branch companies, mainly produces blow room, cotton carding machine, draw frame, Roving frame, rotor spinning machine, ring spinning machine, water jet loom, nonwoven machinery etc. The company has built a complete infrastructure to support a full effort for product research and development to satisfy the needs of the marketplace. Production capability for cotton machinery and spinning machinery products sustains an annual quantity of 20,000 units of various models.

Tongda has been growing steadily since 1952 when the spinning machine were developed. Tongda places its focus on becoming a professional supplier of Textile machinery and new materials with continuous development of modern ergonomic designs, a reliable service support network, and an efficient global network of logistics. Today, Tongda machines are being widely used by thousands of cotton and yarn, textile manufacturers.

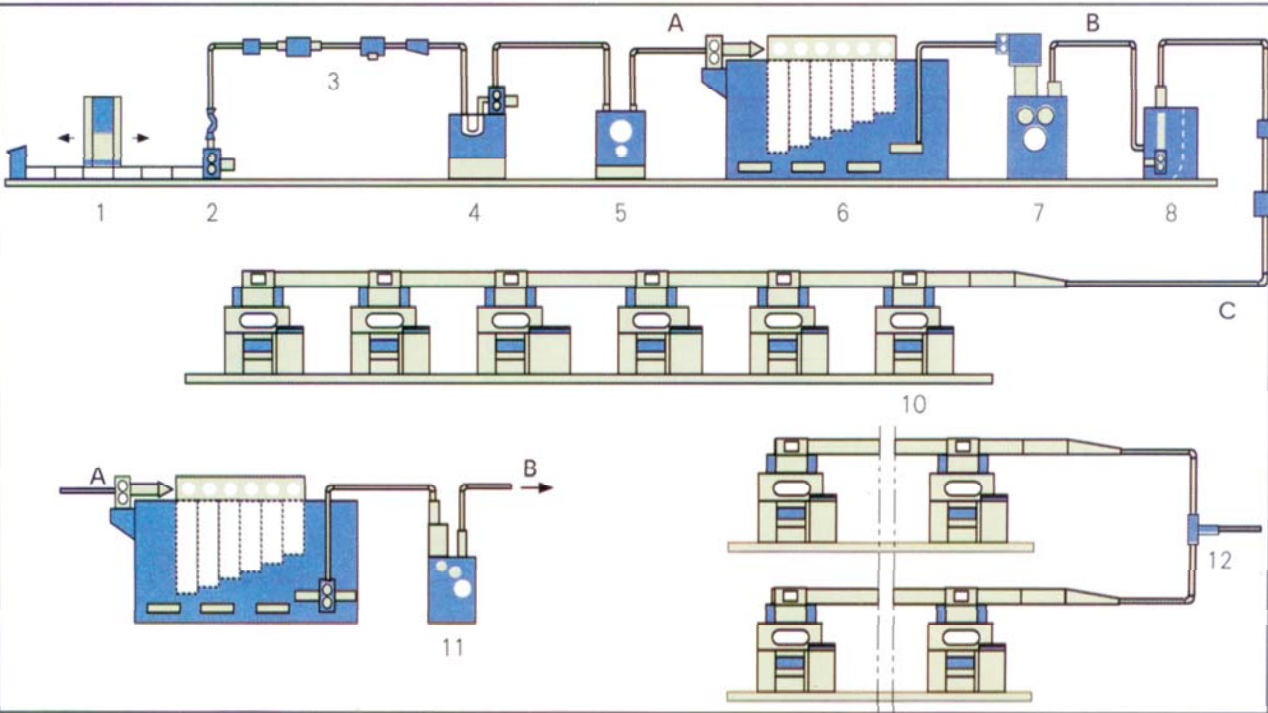
Along with product development, Tongda has been awarded technology patents. Special techniques in design and manufacturing have also been perfected.

Tongda is an ISO9001, ISO14001, and ISO13485 company, The products are designed to meet the technical standards of 3C and CE. All the products are certified by the Industry Administration Authority.

Tongda will continue to strive to be a stronger leader in the global market of Cotton machinery and Spinning machinery.



B&C FOR COTTON(RING SPINNING ,OE)



This B&C line max. production: 600 kg/h; Could be equipped with more than 10 carding machines or optional FT202A if necessary; FA1115 is suitable for processing clean cotton; FA206B is suitable for ring spinning and OE spinning ; FA206C is suitable for OE.

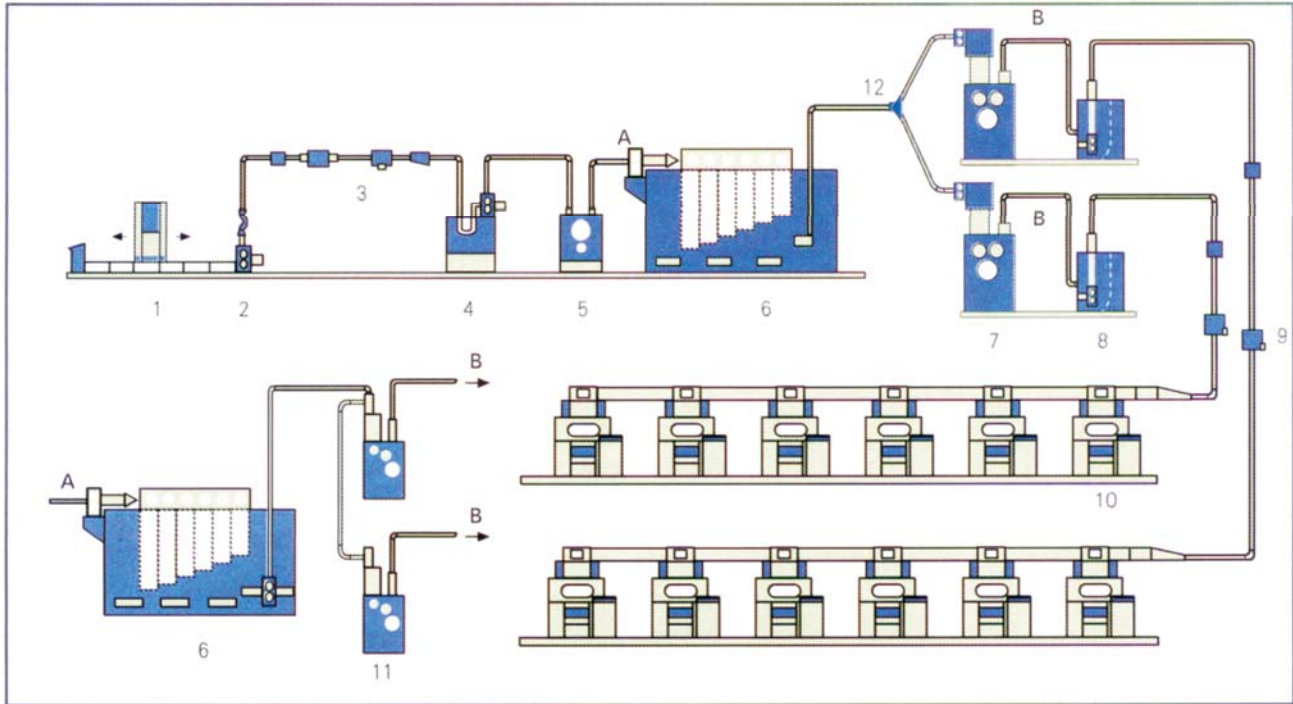
APPLICATION

Suitable for cotton, ring spinning and open–end spinning.

CONSTITUENT OF UNIT

1. Bale plucker				
2. Transport fan	Bridge magnet			
3. Spark and metal detector	Little dust separator			
4. Weight Separator	transport fan			
5. Single roller cleaner				
6. Transport fan	Multi-mixer	Multi-mixer	Curve magnet	transport fan)
7. Vertical fiber separator	Transport fan	Fine opener	Fine Opener)	Controller of continuous feeder
8. Dedusting machine	Transport fan	Transport fan		
9. All Spark detector				
10. Chute feeder	Carding machine	Carding machine	Carding machine	Carding machine
11. Chute Feeder	Chute feede	master cleaner	Master cleaner	
12. T shape distributor				

B&C FOR COTTON (RING SPINNING,OE)



This B&C line max. production: 900 kg/h; Could be equipped with more than 10 carding machines or optional FT202A if necessary; FA1115 is suitable for processing clean cotton;FA206B is suitable for ring spinning and OE spinning; FA206C is suitable for OE.

APPLICATION

Suitable for cotton , ring spinning and open–end spinning

CONSTITUENT OF UNIT

1. Bale plucker				
2. Transport fan	Bridge magnet			
3. Spark and metal detector	Little dust separator			
4. Weight Separator	Transport fan			
5. Single roller cleaner				
6. Transport fan	Multi-mixer	Multi-mixer	Curve magnetn	transport fan
7. Vertical fiber separator	Transport fan	Fine opener	Fine Opener	Controller of continuous feeder
8. Dedusting machine	Transport fan	Transport fan		
9. Spark detector				
10. Chute feeder	Carding machine	Carding machine	Carding machine	Carding machine
11. Chute Feeder	Chute feeder	Master cleaner	Master cleaner	
12. 2-Way distributor				

FA017 RECIPROCATING BALE PLUCKER

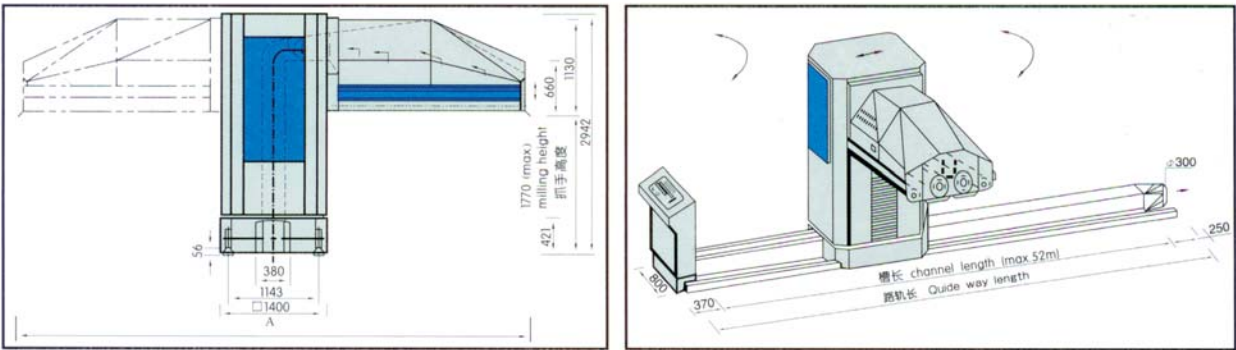
FA017 series bale plucker as the first process of blowroom & card is suitable to each kind of cotton and chemical, viscose fiber length less than 76mm. The pluck arm, mounted with two beaters, can lift and revolve 180°. The pluck arm moved to and back to pluck fiber above bale. The fiber plucked are sucked into the front feeder by air current through transport duct for further process.



MAIN FEATURES

Bales can be placed in two sides. The machine can pluck 1 to 3 group bale with different height and density. Meet the demand for kinds of yarn at the same time.
Tower can revolve 180°.
It is designed with two plucking rollers and two detecting rollers.
With different working width of milling there are 17, 23 plucking knives and 102, 138 tips on each plucking roller; while plucking roller revolving, it make even distributed plucking line. The position of knife tip and flap can be adjusted to meet every requirement.
Automatic plucking controlled by microcomputer.

CONSTRUCTION FIGURE



SPECIFICATIONS

Milling depth (mm)	0.1~20 (adjustable)
Basic length of machine (mm)	20400
	Maximum length 52000
Maximum bale height (mm)	1600
Pluck roller	Control by pulley or inverter
Total power (kw)	7.5
Net weight (kg)	7000

Working width (mm)	2300	1700
Production (kg/h)	1500	1000
Effective plucking width (mm)	2300	1700
A (mm)	6362	5162

FA002D DISK PLUCKER



FA002D disk plucker is an important machine in blowing-carding line. It is applicable for kinds of raw cotton. Cotton content chemical fiber, middle and long chemical fiber, generally two set of plucker are put into production in parallel. Plucking beater go down interval and rotate with carriage to pluck cotton sequence. Cotton plucked is transported to the next machine via duct.

SPECIFICATIONS

Production (kg/h)	800-1000kg
Loading capacity (kg)	4000 (2 sets)
Outer wall diameter (mm)	Φ4760
Inner wall diameter (mm)	Φ1300
Speed of carriage (r/min)	1.6~2.2
Beater speed (r/min)	740
Blade extension from grid (mm)	2.5~7.5
Rail diameter (mm)	Φ5123
Height (mm)	3864
Power (kw)	4.1
Net weight (kg)	About 1600

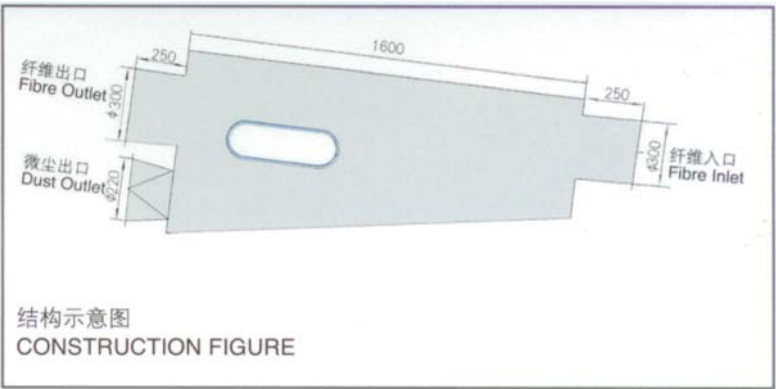
FT215B LITTLE DUST SEPARATOR

FT215B mainly used in the frontier of the blowroom & card system. It can separate little dust and make air current balance. This product is usually used before Roller Cleaner.



MAIN FEATURES

- Simply structure, no running and electrical equipment parts;
- Maintain conveniently;
- The exhaust capacity of dust outlet is adjustable;
- Dust outlet must be connected with dust filtration system.



SPECIFICATIONS

Applications (mm)	Applications (mm)It is used for fiber in length less than 88mm
Dust outlet pressure (Pa)	Dust outlet pressure (Pa)≥ -500
Overall dimension(LxwxH)(mm)	Overall dimension(LxwxH)(mm)2100x770x440
Weight (kg)	Weight (kg)About 80

FA126 WEIGHT SEPARATOR



FA126 weight separator is used for excluding most of trash and abnormal matter in fiber tuft. When cotton pass through bridge-magnet,iron-trash is removed at the same time. FA126 weight separator, working in fiber current, is made up of adjustment duct. When cotton fiber contact grid bar,trash is separated from fiber tuft due to difference of centrifugal force then sucked away through dust pipe.

MAIN FEATURES

Power free trash removing, easily adjustable angle of grid bar.
Transporting fan and bridge-magnet are erected in FA126 directly which save bracket and area occupation.
If required, FA126 with continuous suction system is available and need no manual clean.

SPECIFICATIONS

Applications	It is used for fiber in length less than 88mm
Working width	500
Overall dimension(mm)	1864 x 850 x 2792 (L x W x H)
Net Weight (kg)	300

MAKE SPINNING SUCCESS

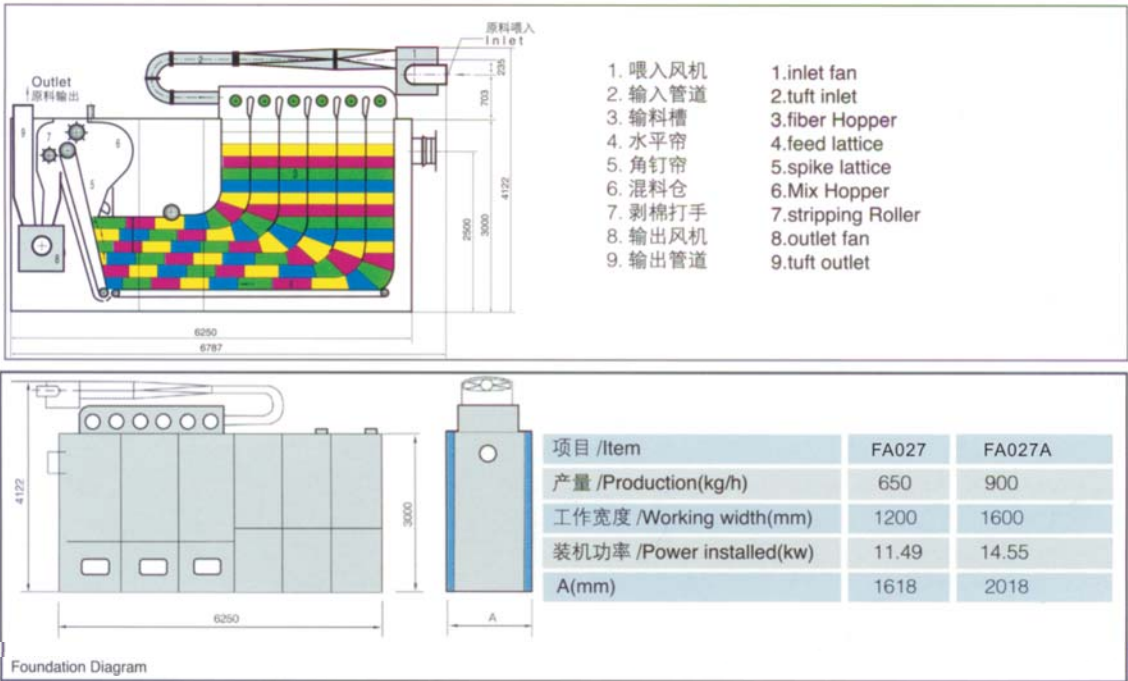
FA027 SERIES MULTI-MIXER



FA027 is used for blending cotton, chemical fiber or blends. After fiber is filed into FA027, Airflow blows it into every hopper evenly to form a airflow blending. The fiber in every hopper is conveyed in a 90° turn .And the excessive fiber is thrown into blending room to attain fine mixture.

MAIN FEATURES

Designed with PLC control system and connected with the PLC of front and back machine.
Intensive three times mixture, all kinds of fiber can be even blended.
The pressure is hopper can be automatically monitored, controlling bale plucker to start or stop.
Transport belt and spike lattice are controlled by motor with inverter, can be stepless speed regulation.
Sensitive detect section, obtaining continuous running of the whole process.



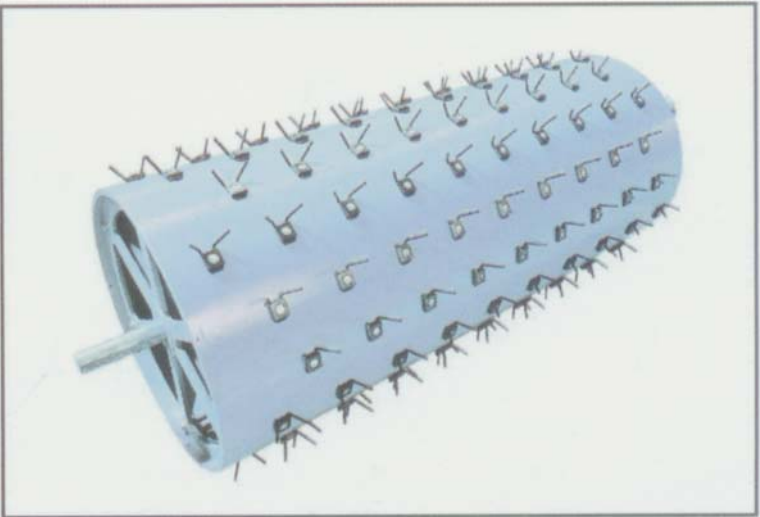
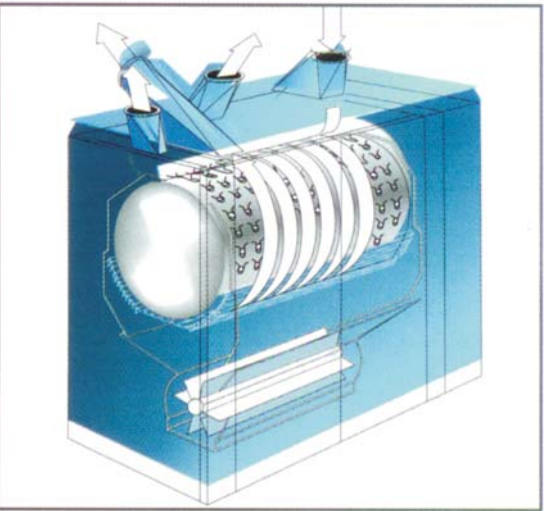
SPECIFICATIONS

Applications	Used for processing cotton and chemical fibers or blends in length less than 65mm
Transport belt speed (m/min)	0. 06~0. 81
Spike lattice speed (m/min)	13. 3~129. 5
Overall dimension (L x W x H) (mm)	6787 x A x 4122
Net weight (kg)	5800

FA107 SINGLE ROLLER CLEANER



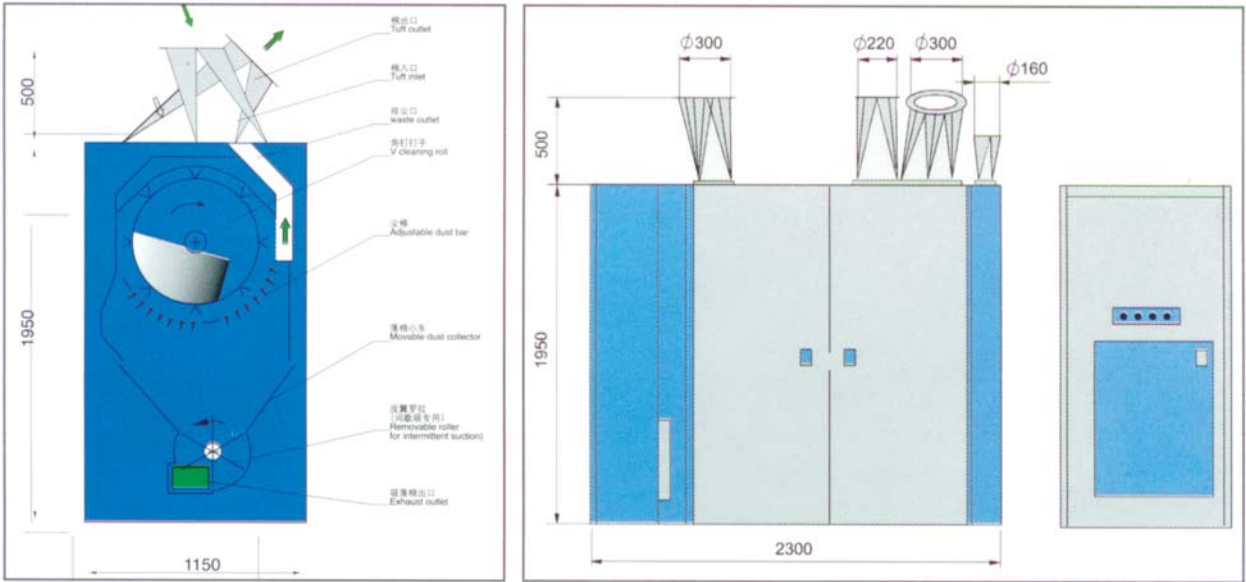
FA107 Single Roller Cleaner is an efficient pre-process cleaner, suitable for every kind of raw cotton. Material inside is opened sufficiently by flexibility beating several times in freedom after five and half circles. During opening, cotton is separated from dust. Material opened and purified is transported next process.



MAKE SPINNING SUCCESS

MAIN FEATURES

- Opened with free hold, decrease the fibre damage.
- V type beater, flexible and high efficient.
- Beater can be driven by pulley or inverter motor.
- Grids distance can be adjusted manually, meet the variety processing demand.
- Intermittent or continuous exhaust device is optional.
- Special construction, increase removing of dust and short fiber.



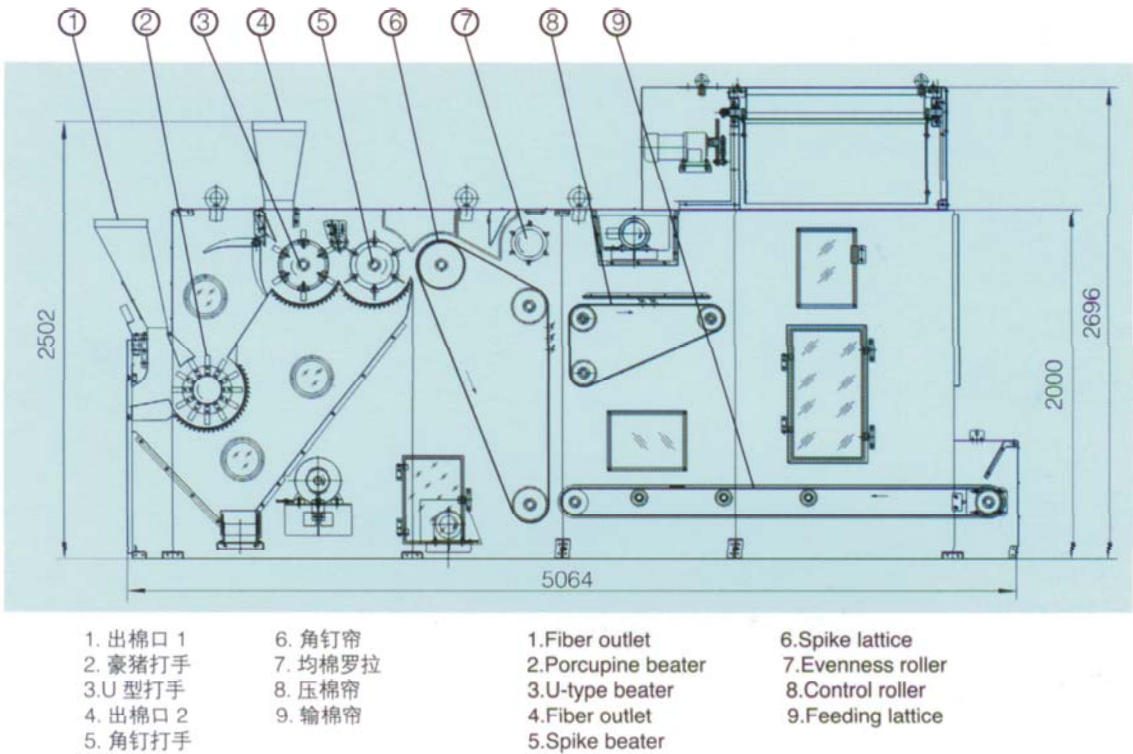
SPECIFICATIONS

Production (kg/h)	1200
Working width (mm)	1600
Pinned beater diameter (mm)	Φ750
Pinned beater	Control by pulley or inverter
Power installed (kw)	11
Overall dimension	2300 x 1150 x 1950
(L x W x H) (mm)	Added tuft: overall height 2450
Net weight (kg)	1500

Attention: Removable roller is supplied when intermittent exhaust device is used and is not supplied when continuous exhaust device is used.

FA105 BLENDING OPENER

This machine is suitable to process various kinds of cotton. A fiber condenser feeds the cotton plucked by automatic bale plucker into this machine to get further blending, opening and cleaning, and then cotton is delivered to next machine for further process.



MAIN FEATURES

With the function of blending , opening and cleaning.
Cleaning unit comprises a spike beater, a U-type beater, a porcupine beater and 3 groups of grid bar. Raw material is processed gradually by the spike beater, U-type beater and porcupine beater in sequence, Gauges between grid bars are decreased accordingly. Thus the fiber can be fully opened and cleaned with less damage as well.
Total enclosed steel sheets frame to show a tidy and nice appearance.

SPECIFICATIONS

Production capacity (kg/h)	800
Working width (mm)	1060
Speed of feeding lattice (m/min)	1,1.25,1.5,1.75
Speed of control lattice (m/min)	1,1.25,1.5,1.75
Speed of spike lattice (m/min)	60,70,80,100
Evenness roller Dia. (mm)	260
Speed (rpm)	209,234,269
Spike beater Dia. (mm)	400
Speed (rpm)	450 503 578
U-type beater Dia.(mm)	400
Speed (rpm)	535 598 687
Porcupine beater Dia.(mm)	400
Speed (rpm)	717, 801, 920
Type of grid bar	Triangle grid bar
Gauges (mm)	5~11(adjustable)
Gauge between control lattice and spike lattice(mm)	60~80
Overall dimension(L x W x H)(mm)	5397 x 1576 x 2746
Total installation power (kw)	6.05

FA127 SERIES VERTICAL FIBER SEPARATOR



FA127 series vertical separator is used for separating dust and short staple from cotton. It is arranged in front of vibrating chute, reserve silo or fine opener in scotching machinery line.

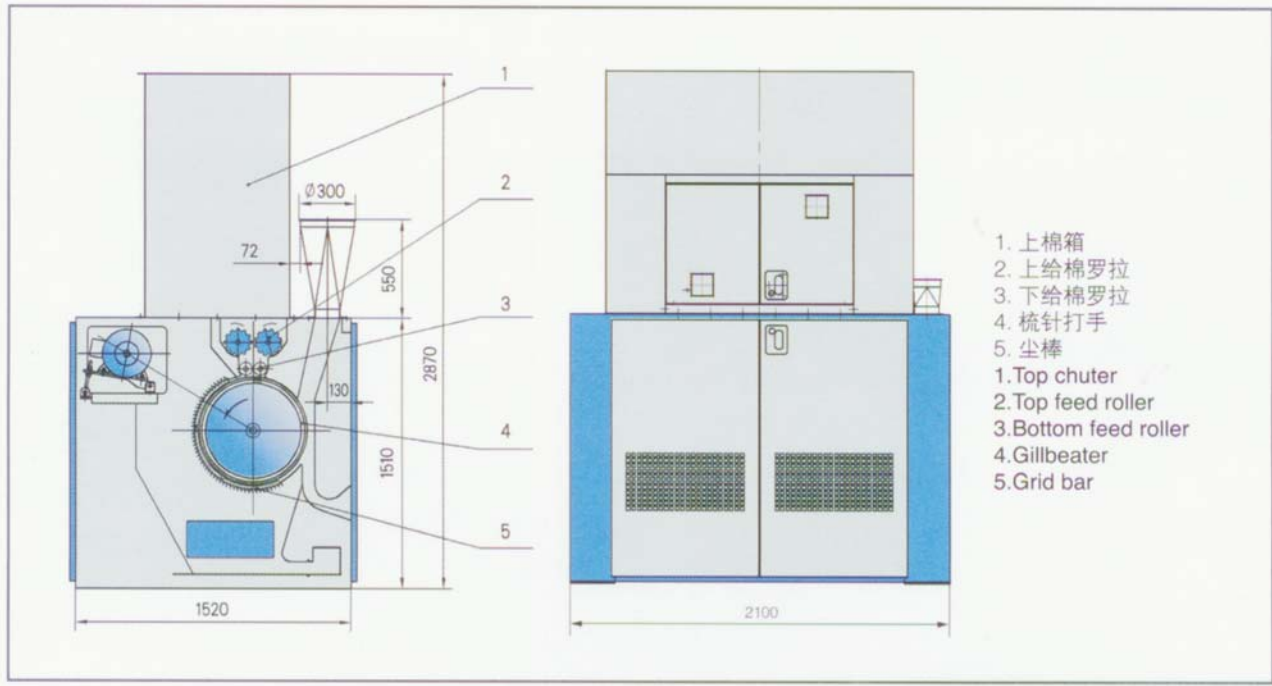
MAIN FEATURES

Cotton fiber revolves while it pass through fiber separator .
Dust and short staple, functioned by centrifugal force, is sucked through grid to dust exhaust pipc.
Meanwhile fiber is better mixed during cotton drop.

SPECIFICATIONS

Type	FA127
Fan	FT201B
Production (kg/h)	600
Air exhaust (M3/H)	3300~5000
Cotton entry pipe dia.(mm)	Φ300
Overall dimension(LxWxH)(mm)	1260x900x1200

FA117 SERIES FINE OPENERS



FA117 SERIES FINE OPENERS



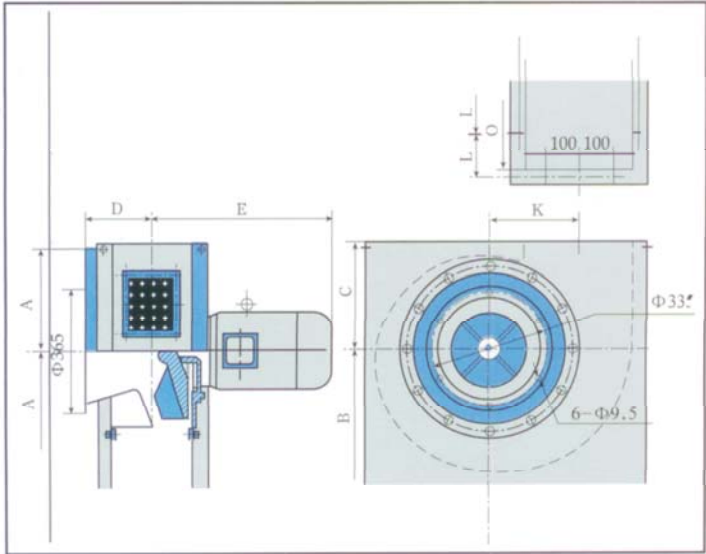
This machine is one of suching and blowing machinery whose function is for further opening and cleaning to cotton or chemical fiber being primary opened.

MAIN FEATURES

This machine is made up of top chute, feed unit, beater unit, grid bar adjusting unit, frame unit. It is used together with fiber separator in scotching process and its gill beater, running at certain speed, exclude trash through mutual function of centrifugal force and grid bar. Fully opened and cleaned material are sent to next process and trash separated are sent to dust filtering system.

SPECIFICATIONS

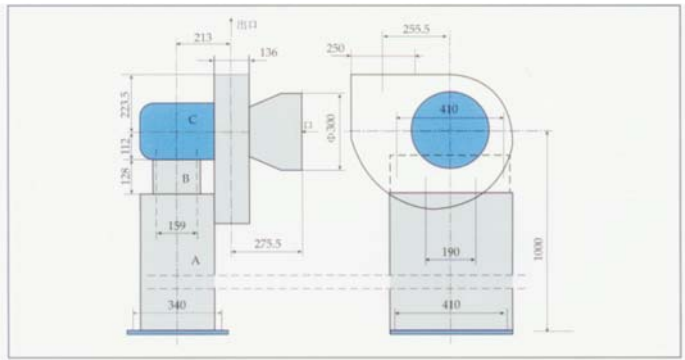
Type	FA117	FA117-160
Out put (kg/h)	800	1000
Suitable material	Natural and manmade fiber in lengthlessthan76mm	
Working width(mm)	1060	1600
Feed roller speed (r/min)	18~85, stepless speed adjusting according to output	
Gill beater speed (r/min)	480, 540, 600. pulley diameter changeable accrofing to output (Option: Inverter)	
Power installed (KW)	3. 55	5. 1
Profile dimension (L x W x H) (mm)	1560x1520x2870	2100x1520x2870



SPECIFICATIONS

Air volume (m³/h)	2175~4790
Pressure (Pa)	1205~480
Speed range (rpm)	1440
Motor power (kw)	4
Dimension of inlet (mm)	Φ300
Dimension of outlet (mm)	280 x 200
Overall dimension(L x W x H) (mm)	739 x 617 x 640

DF201 TRANSPORT FAN



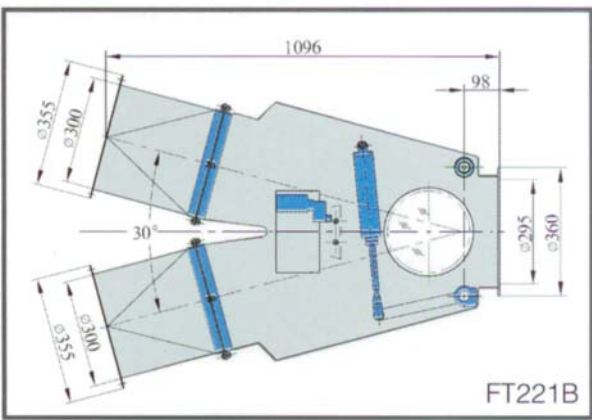
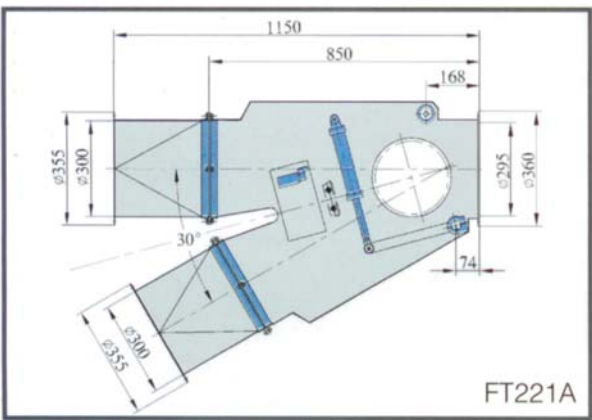
Air volume (m³/h)	max.4000
Pressure (Pa)	max.1500
Speed range (rpm)	750~3000
Motor power (kw)	3.5
Dimension of inlet (mm)	Φ300
Dimension of outlet (mm)	130 x 250
Overall dimension(L x W x H) (mm)	684 x 640 x 1405
Net weight (kg)	100

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TD231 SERIES 2-WAY DISTRIBUTOR



The time opening or closing of TD231 is controlled by programmable controller.

With the double swing paddle structure, material of front process is transported to next process, satisfying all kinds of process request.



SPECIFICATIONS

Working diameter (mm)	Φ300
Work pressure (Mpa)	0.2~0.6
Max. working pressure (Mpa)	≤1
Work voltage/frequency (V/HZ)	220/50
Inlet pipe specification(mm)	Outer Φ 8 x 1
Time of valve open and close	Adjustable

FA171 CHUTE FEEDER



This machine is a connecting unit between cards and blowroom whose function is to make fiber (after being opened and mixed) feed to card in even butt ensure continuous and even cotton Supply for card.

MAIN FEATURES

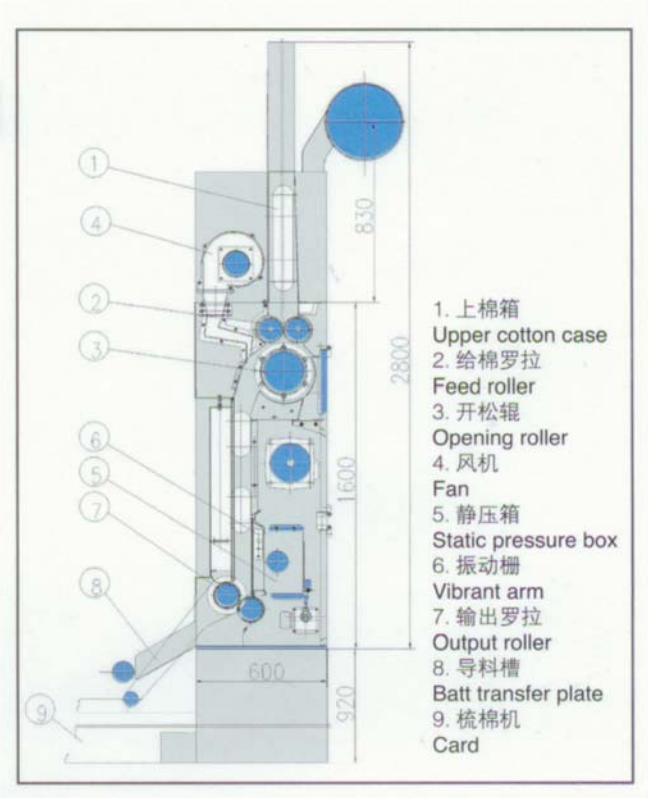
- Good open effecton, low fiber damage.
- Two feed rollers feed materials to prevent from warping.
- The feed rollers controlled by inverter.
- It is mounted with protection unit.
- The space between feed rollers and feed rollers/open roller is adjustable.
- The vibrant favorable for forming even and uniformity fiber batt.
- The output roller draft for improving sliver evenness
- The sliver evenness is improved.

ELECTRICL CONTROL

FA171 chute adopts imported inverter to control eash motor. It has electrical cabinet, all electrical elements are controlled by imported PLC, no need of start or stop independently.

SPECIFICATIONS

Suitable fiber	All synthetic and mixed fibers which are less than 76mm
Working width (mm)	950
Production (kg/h)	100
Diameter of feed roller (mm)	Φ120
Diameter of opening roller (mm)	Φ266
Blower speed (rpm)	2840
Air displacement	600m³/h -500pa
Installed power (kw)	2.85
Overall dimension (W x L x H)(mm)	1614 x 600 x 2800
Net weight (kg)	1400

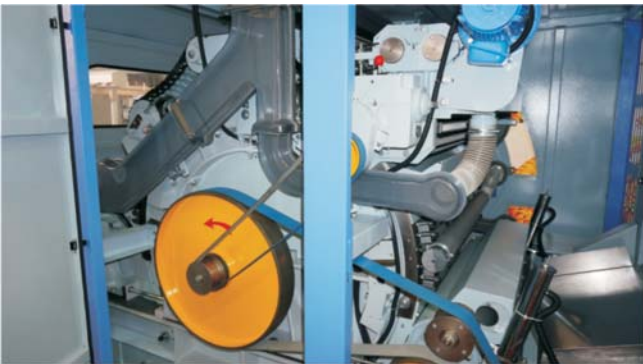


FA204C CARDING MACHINE



MODULAR DESIGN

Licker-in section adopts single licker-in and three – licker-in modular design and two noil area can be easily adjusted outside machine. Mote knife under licker-in and clean unit can be used for adjusting noil quantity to reduce fiber loss. Tandem stationery flat, web cleaner, Al-alloy sheet can be configured and fit in different group according to material, featured by flexible mantling and dismantling, good trash excluding efficiency.



NEWTYPE OF CHUTE FEEDER

New type of chute with big capacity supply cotton stable and improve sliver evenness and weight irregularity efficiently. Air is circling inside chute to make batt more even and stable. Feed plate is pressurized by spring so fiber is hold elastically. Distance between feed plat and feed roller is automatically adjusted according to batt thickness.



MAKE SPINNING SUCCESS

NEWTYPE OF MECHANICAL STRUCTURE AND DRIVING METHOD

Step entity frame welded by steel plate, flexible and simple mechanical structure, special machining technology ensure gauges precision.

Adoption of multi-independent motor plus vector enhances automation and precision of technological adjustment.

Pneumatically controlled turnover cross apron is favorable for observing web.

Cylinder: Big torque independent motor, motor diector start with stable running.

Rotary Flat: Independent motor+ vectory inverter, stepless speed adjustment, suitable to different material and different technology.

Doffer: Independent motor+vector inverter, stepless speed adjustment, solve the problem of big sliver count fluctuation during acceleration and deceleration.

Feed: Independent motor+vector invester, stepless speed adjustment, leveling system can greatly increase sliver irregularity.



MAIN TECHNICAL PARAMETERS

This machine is used for:	processing cotton and ma-made fiber or blends in length22-76mm
Deliver speed:	Max. 140m/min
Output :	up to 45kg/h(max)
Sliver count :	3.5~6.5g
Layer weight :	400-800g/m
Working width:	1000mm
Total draft :	68.7~152.8
Taker-in diameter:	Φ250mm
Taker-in speed :	823, 983, 1039rpm
Doffer diameter :	Φ706mm
Cylinder diameter :	Φ1289mm
Cylinder speed :	323, 360, 403r/min
No. Of revolng flats(working/total) :	39/104
Auxiliary carding parts :	taker-in carding segment, front 3 rear 2 stationer flats or front 4 rear 2 stationer flats with 1 web purifier, or front 3 rear 2 stationary flats
Can size(mm) :	Φ600*900 , Φ600*1100
Total install power :	5.72kw
The main motor:	3.3kw
Doffer motor:	1.5kw
Motor for cleaning roller:	0.37kw
Motor for feeding roller :	0.55kw
Floor area(LxW):	3732*2033(mm)
Net weight :	approx.5500kg
Optional :	
Blowing-carding-drawing unit:	without cotton waste. suitable fro high speed and high production
Continuous suction:	air exhaust amount 2800-3500 m³/h for continuous suction.

FA206C CARDING MACHINE



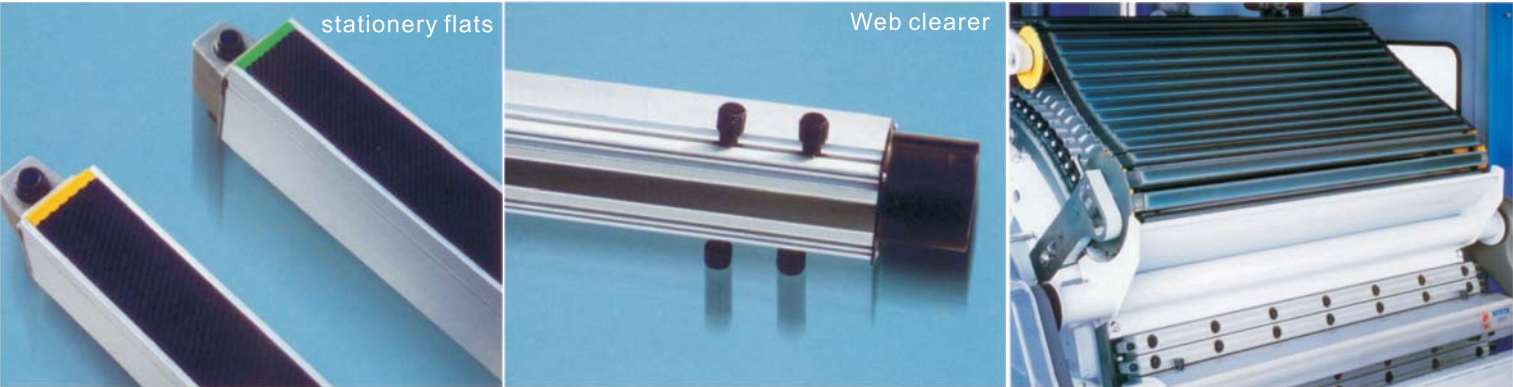
HIGH EFFICIENT CARDING SYSTEM
MODEL ALUMINUM ALLOY STATIONERY FLATS GUARANTEE
OF SINGLE FIBER CARDING AND EFFICIENT REMOVING NEPS AND TRASH

The accurate and perfect cast iron entity cylinder is made with German resin sand technology. It is featured by netter stability without deformation to ensure precise gauge of various flats when spinning different yarn type.

Rotary Flat is support by four points that is made by wear resistant material to ensure minimum flat tip height difference and extend duration.

Front.rear stationery flats and web cleaner are made by aluminum alloy,good tip neatness and convenient gage adjustment to ensure fiber carding more fully and fine. Web cleaner,stationer flat,cover sheet are designed in modular which can be grouped and fitted according to different material and flexible dismantled with better trash excluding efficiency.

Singular licker-in is mounte. It is designed with note knife, pre-carding segment , around licker- in to efficiently exclude trash and short staple. Mote knife and dust dropping zone length can be used for adjusting noil quantity to reduce fiber loss.



MAKE SPINNING SUCCESS

MAIN PERFORMANCE

- Intelligent Control:
- 1. Advanced Control System Monitors.
 - 2. The Working Status and Running Efficiency.
 - 3. Safety Protections and Self-Diagnosis System
- High Quality and High Efficiency
- 1. Sophisticated Suction System Provide Better Opening and Cleaning.
 - 2. Independent Transmission Motors Adjusted by Inverts For High Efficiency.
- Easy Peroration and Maintenance
- 1.User Friendly Graphical Interface
 - 2.Easy Access to control Parameters
 - 3.Smart Mechanical Design Makes maintenance An Easy Take



SPECIFICATIONS

Application	This machine is used for processing cotton and chemical fibres or blends in length 22~76mm,It is specially used for openend spinning	
Production(kg/h)	80	
Delivery speed (m/min)	320	
Sliver count (g/m)	3.5~6.5	
Feed weight (g/m)	300~1000	
Working width (mm)	1000/1250	
Total draft	60~300	
Feed roller diameter(mm)	Φ100	
Licker-in speed	Φ180,Φ180,Φ250	
Doffer diameter(mm)	Φ706	
Doffer speed(r/min)	4~65	
Cylinder diameter(mm)	Φ1288	
Cylinder speed(r/min)	340~510	
No. of revolving flats(working/total)	30/84	
Flat speed(mm/min)	98~370	
Auxiliary carding segment	4 licker-in Carding segments,4 front stationary flats(Cotton),4~6(Chemical fiber); 6 rear stationery flats(Cotton),6~10(Chemical fiber)	
Web cleaner	Rear web cleaner(2),Front web cleaner(1)(Cotton)	
Can size(mm)	Diameter	Φ600,Φ1000
	Height	1100,1200
Continuous suction(m³/h)	Air volume 4000	
Air pressure(Pa)	-920	
Compressed air requirement(kg/cm²)	Pressure 5~7	
Compressed air consumed(m³/h)	0.02	
Total installed power(kw)	11.24	
Safety cover form	Totally-enclosed structure	
Space requirement(Lx W)(mm)	4007 x 1980 (Coiler no included)	
Approx net weight(kg)	7500	
Option	USTER UQA aotoleveller	

FA206B CARDING MACHINE



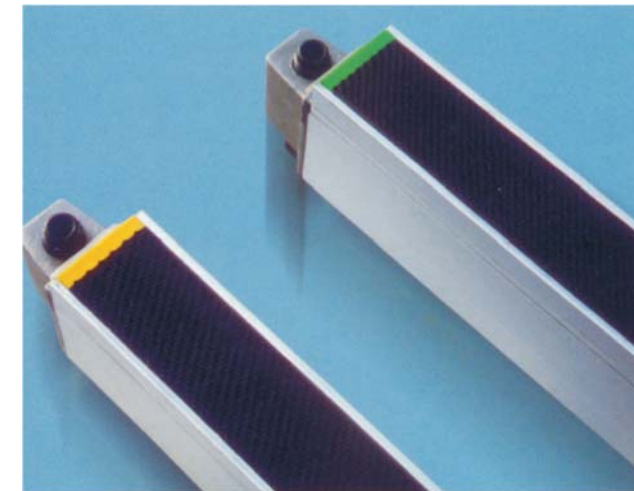
MAKE SPINNING SUCCESS

HIGH EFFICIENT CARDING SYSTEM

MODEL ALUMINUM ALLOY STATIONERY FLATS

GUARANTEE

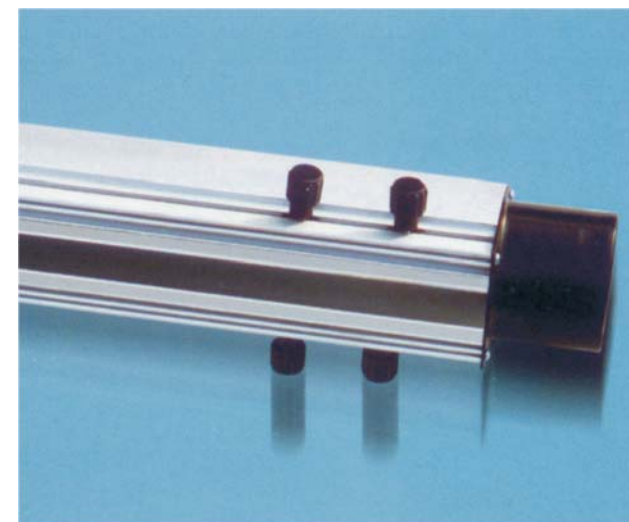
OF SINGLE FIBER CARDING AND EFFICIENT REMOVING NEPS AND TRASH



stationery flats

The accurate and perfect cast iron entity cylinder is made with German resin sand technology. It is featured by netter stability without deformation to ensure precise gauge of various flats when spinning different yarn type.

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MAIN PERFORMANCE

Intelligent Control:

- 1. Advanced Control System Monitors.
- 2. The Working Status and Running Efficiency.
- 3. Safety Protections and Self-Diagnosis System

High Quality and High Efficiency

- 1. Sophisticated Suction System Provide Better Opening and Cleaning.
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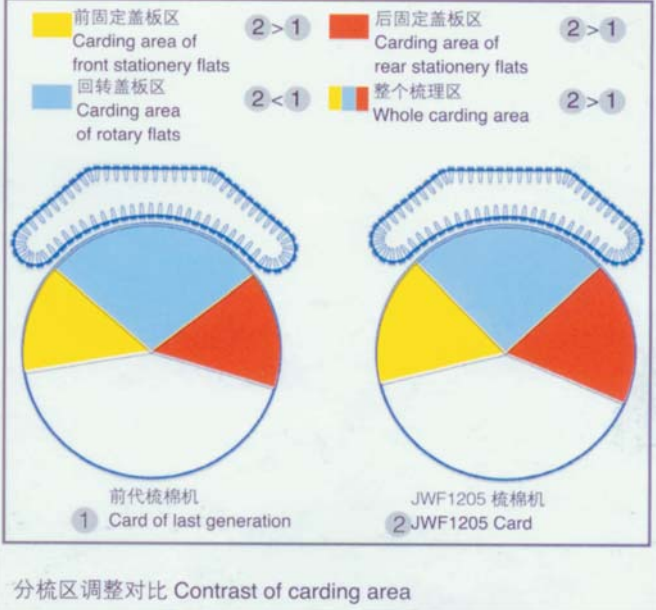
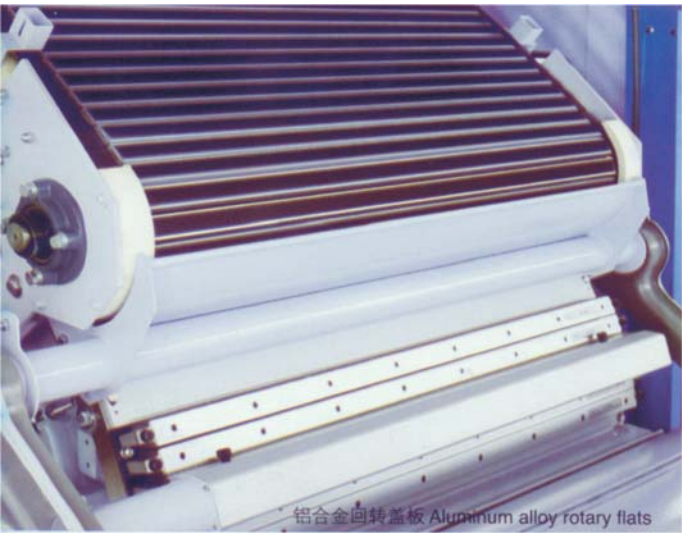
HIGH EFFICIENT CARDING SYSTEM
GUARANTEE
OF EFFICENTLY REMOVING NEPS AND TRASH

Compared with traditional card,cylinder is lift up to increase and adjust carding area,which is the main factor to greatly increase production.

Precise and perfect entity cast iron cylinder with good stability and non-deformation is made by German resin sand production line to ensure different gauge between cylinder and flat for different material.

Rotary flat, made by high technology aluminum, is featured by light weight,stable operation,and easy adjustment. Rotary flat is driven by two concave tooth belts without other fastening part,which can greatly save dismantling and install time.

Front/rear stationary flat,cover sheet are designed in modular which can be grouped and fit according to different material and flexible dismantled with better trash excluding efficiency.



SPECIFICATIONS

Application	This machine is used for processing cotton and chemical fibres or blends in length 22~76mm,It is specially used for openend spinning	
Production(kg/h)	80	
Delivery speed (m/min)	320	
Sliver count (g/m)	3.5~6.5	
Feed weight (g/m)	300~1000	
Working width (mm)	1000/1250	
Total draft	60~300	
Feed roller diameter(mm)	Φ100	
Licker-in speed	Φ180,Φ180,Φ250	
Doffer diameter(mm)	Φ706	
Doffer speed(r/min)	4~65	
Cylinder diameter(mm)	Φ1288	
Cylinder speed(r/min)	340~510	
No. of revolving flats(working/total)	30/84	
Flat speed(mm/min)	98~370	
Auxiliary carding segment	4 licker-in Carding segments,4 front stationary flats(Cotton),4~6(Chemical fiber); 6 rear stationery flats(Cotton),6~10(Chemical fiber)	
Web cleaner	Rear web cleaner(2),Front web cleaner(1)(Cotton)	
Can size(mm)	Diameter	Φ600,Φ1000
	Height	1100,1200
Continuous suction(m³/h)	Air volume 4000	
Air pressure(Pa)	-920	
Compressed air requirement(kg/cm²)	Pressure 5~7	
Compressed air consumed(m³/h)	0.02	
Total installed power(kw)	11.24	
Safety cover form	Totally-enclosed structure	
Space requirement(Lx W)(mm)	4007 x 1980 (Coiler no included)	
Approx net weight(kg)	7500	
Option	USTER UQA aotoleveller	

FA316A HIGH SPEED DRAWING FRAME



MAIN PERFORMANCE

1. This machine is suitable for a wide variety of spinning fiber, and output rate is high.
2. Four up and four attached guide roller, and pressure bar type dual zone curve drafting structure, makes sure to have an excellent quality and a quality stability.
3. Main motor users can control stepless speed regulation with choice of frequency converter, it ensures steady increase in speed and strip quality.
4. Programmable controller PLC and text screen operation is conducive to the stability and the reliability of electrical control.
5. The ideal guide photoelectric automatic stop device, machine holds a photoelectric automatic stop device, sliver flowing frame.
6. The user can choose the automatic doffing device, can reduce the labor intensity of operators, in order to improve work efficiency.
7. The user can choose eight-way detection device.



TECHICAL SPECIFICATIONS

1. Delivery number: 2 holes;
2. Max output speed: 600m/min
3. Total drafting multiple: 5–14 times
4. Drafting style: five upper and four lower with pressure bar drafting
5. Feeding sliver number: 6–8 pieces
6. Suitable fiber length: 15–76mm
7. Feeding tube size (mm): ϕ 400、 ϕ 500、 ϕ 600、 ϕ 800、 ϕ 900、 ϕ 1000 x height 900 or 1100 (1200) mm

8. Tube size of output (mm): ϕ 300、 ϕ 350、 ϕ 400、 ϕ 500 x height 900 or 1100 mm.
9. Main frame exterior size (mm): 2270 x 950 x 1645mm
10. Weight: 2200kg
11. Main motor power: 4.0kw

FA318A DOUBLE HOLES SPEED DRAWING FRAME WITH AUTOLEVELLER



MAIN FEATURES

1. Output speed of 800 meters per minute; Optical, electric, mechanical, the gas as one.
2. Switzerland USTER short fragment autoleveling control system.
3. The on-line detection, monitoring the quality of the stem.
4. Touch screen display, man-machine conversation.
5. The user can choose the frequency control to reduce the pulley transform to solve the switch car instantly evenness deterioration.
6. The PLC control, digital machine, overhead photoelectric control, makes sure more stable and reliable equipment operation.
7. The user can choose compulsory lubrication, to reduce gear wear and be helpful for high speed.
8. The user can choose compulsory lubrication, to reduce gear wear and be helpful for high speed.
9. Automatic scraping cotton device, regular cleaning.
10. The user can choose the automatic doffing device to improve production efficiency.
11. The use of multiple gap seal, suitable for high speed.



TECHINCAL SPECIFICATIONS

1. Delivery number: 2 holes;
2. Max output speed: 800m/min
3. Total drafting multiple: 4–14 times
4. Drafting style: five upper and four lower pressure bar dual zone curve drafting
5. Feeding sliver number: 6–8 pieces
6. Suitable fiber length: 15–76mm

7. Feeding tube size (mm): ϕ 400、 ϕ 500、 ϕ 600、 ϕ 800、 ϕ 900、1000 x height 900 or 1100 (1200) mm
8. Tube size of output (mm): ϕ 350、 ϕ 400、 ϕ 500、600 x height 900 or 1100 mm.
9. Main frame exterior size (mm): 2500 x 1500 x 1750mm
10. Weight: 2400kg
11. Main motor power: 5.5kw

ROVING FRAMER



FA471/FA472 Three-shaft Linkage Computerized Type High Speeds Suspend Flyer Roving Frames adopt the advanced numerical controlling technique, get rid of the cone drum structure, mechanical forming and direction transposition structures of former flyer frames.

FA473/FA474 Four-shaft Linkage Computerized Type High Speed Suspend Flyer Roving Frames adopt the advanced computer numerical control technique, getting rid of the cone drum structure, mechanical forming structure, quick lifting, direction changing configuration and different speed configuration. It makes four main drive parts run independently, and it is controlled by computer numerical control system and servo drive mode. Now it is the most advanced roving frames in mechanical-electrical integration of China. It is suitable for pure or blended processing of combed cotton fibre and artificial fibre.



ROVING FRAMER



The FB471 wool spinning fly frame is our company's domestic origination which develops specially in view of the wool spinning profession. It uses the computer to control the spindle fly frame high speed, is suitable in completing the staple in the 80-220mm wool, the hemp, the chemical fiber and so on to spin or the fabric blending purely.

The FB471 wool spinning fly frame is in our company's major product--cotton spinning high speed fly frame's foundation, carries on special-purpose fly frame new product which various promotion transformation becomes: The drafts form uses three roller double leather ring drafts, the draftometer is big, the drafts speed is high, satisfies the wool spinning special drafts request;

The optimization design new differential mechanism, the change transmission stressful condition, increased the design manufacture precision, the solution vibrates in a big way, elevates, the oil leak to be serious warm, the bearing easy to damage technical difficult problem; The improvement front transmission system and the front rack construction, realizes the micro vibration to reel thread high speed; Uses the wool spinning special-purpose electrically controlled system, improved the operating procedure, increases the control precision. This type about face original old style wool spinning fly frame output has been low. The quality is bad. The service maintenance requires a lot of work the time-consuming many shortcomings, the output enhances above three times, the strip does. The automaticity is high. Simplicity of operator. Services conveniently, depth wool spinning customer high praise.



FA471 ROVING FRAMER



FA471 roving machine is fully automatic doffing Red Tianyi Textile Textile Company under development needs,draw extensively on domestic and foreign products and related fields of advanced technology,the use of a new design concept,high starting point,high standards and develop a new generation os smart automatic doffing roving machine,the spinning molding,full pipe automatic doffing,empty full exchange,automatic generation head spinning,etc.to achieve full pricess automation control.Spinning at the same time you can switch to the thickness associated automatic transmission yarn spinning process.Reduced operating noise,improve the service life of parts.

FA471 automatic doffing roving machine adopts intelligent automatic control mode.Spinning process of drafting,twisting,winding,forming a four-motor linkage control mode;doffing exchange process Long tendons removed,hanging yarn platform lift,rotating bracket using three motor linkafe control mode;thickness associated with pneumatic control switch way;whole process optoelectronic monitoring to ensure accurate operation,safe and reliable.

FA471 automatic doffing roving machine is ideal for modern taxi;e enterprises roving spinning equipment.

TECHINCAL SPECIFICATIONS

Main Specification	FA471	FA472	FA473	FA474
Technical Performance				
Debsity For Roving Yam (tex)	220-1250	220-1250	220-1250	220-1250
Length For Fibre (mm)	22-65	22-65	22-65	22-65
Spindle Number(piece)	108, 120, 132	108, 120, 132	108, 120, 132	108, 120, 132
Spindle Gauge(mm)	220	194	220	194
Pitch Gauge (mm)	440	388	440	388
Spindle Number Per Pitch(piece)	4	4	4	4
Drafting System	4- (3) Roller Double-Short-Apron Drfting	4- (3) Roller Double-Short-Apron Drfting	4- (3) Roller Double-Short-Apron Drfting	4- (3) Roller Double-Short-Apron Drfting
Pressing Form	Pendulum Weighting Arm Spring Pressing	Pendulum Weighting Arm Spring Pressing	Pendulum Weighting Arm With Pneumatic Pressing	Pendulum Weighting Arm With Pneumatic Pressing
Roller Diameter (mm)	φ28.5, φ28.5, φ28.5, φ28.5	φ28.5, φ28.5, φ28.5, φ28.5	φ28.5, φ28.5, φ28.5, φ28.5	φ28.5, φ28.5, φ28.5, φ28.5
Top Roller Diameter (mm)	φ28.8, φ28.8, φ25, φ28.8	φ28.8, φ28.8, φ25, φ28.8	φ28.8, φ28.8, φ25, φ28.8	φ28.8, φ28.8, φ25, φ28.8
Drafting Range	4.4-13.3	4.4-13.3	4.4-13.3	4.4-13.3
Mechanical Spindle Speed (r/min)	1600	1600	1600	1600
Spindle Process Revolution (r/min)	1200	1200	1200	1200
Twist Range (twist/m)	18.0-80	18.0-80	Continuously Adjustable	Continuously Adjustable
Bobbin Dimentions (mm)	φ 45x445	φ 45x445	φ 45x445	φ 45x445
Take Up Package Dimentions (mm)	φ 152x400	φ 135x400	φ 152x400	φ 135x400
Cleaning Device	Postive Intermittent Revolving Cleaner With Comb And Itinerary Pneumatic Sution Motion	Postive Intermittent Revolving Cleaner With Comb And Itinerary Pneumatic Sution Motion	Postive Intermittent Revolving Cleaner With Comb And Itinerary Pneumatic Sution Motion	Postive Intermittent Revolving Cleaner With Comb And Itinerary Pneumatic Sution Motion
Transmission Dimentions	Three-shaft Linkage	Three-shaft Linkage	Four-shaft Linkage	Four-shaft Linkage
Control Type	Computerized Model	Computerized Model	Computerized Model	Computerized Model
Man-machine interactin	Touch Screen	Touch Screen	Touch Screen	Touch Screen
Winding Roller Transmission	Bevel Wheel	Bevel Wheel	Left and Right Rotation Bevel Wheel	Left and Right Rotation Bevel Wheel
Spindle Roller Transmission	Left and Right Rotation Bevel Wheel	Left and Right Rotation Bevel Wheel	Left and Right Rotation Bevel Wheel	Left and Right Rotation Bevel Wheel
Winding Power Shaft	Servo Motor Driving	Servo Motor Driving	Servo Motor Driving	Servo Motor Driving
Yam Forming Angle	Random	Random	Random	Random
Three Automatic Doffing	Software	Software	Software	Software
Signal Display	Five Lamps Indicated On Machine Headstock	Five Lamps Indicated On Machine Headstock	Five Lamps Indicated On Machine Headstock	Five Lamps Indicated On Machine Headstock
Tension Adjustment	Software	Software	Software	Software
Tension Fine Adjustment	Software	Software	Software	Software
Preventing Pinched Yam	Software	Software	Software	Software
Package Shoulder Collapse Preventing Device	Software	Software	Software	Software
Winding Density Adjustment	Software	Software	Software	Software
Twist Agree Changing	Twist Gears	Twist Gears	Software	Software
Forming Angle Adjusting	Software	Software	Software	Software
Bobbin Diameter(mm)	φ350, φ400, φ500	φ350, φ400, φ500	φ350, φ400, φ500	φ350, φ400, φ500
Main Power (kw)	10kw	10kw	12kw	12kw
Noise Standard (dB(A))	<85	<85	<85	<85
Overall Dimension Of Equipment (contained suction fan)mm	Spindle	φ400	φ400	φ400
	108	13610x3560x2620	12234x4310x2620	13610x3560x2620
	120	14960x3560x2620	13384x4310x2620	14960x3560x2620
	132	16250x3560x2620	14562x4310x2620	16250x3560x2620
	Spindle	φ500	φ500	φ500
	108	13610x4310x2620	12234x4750x2620	13610x4310x2620
Weight(t)	120	14960x4310x2620	13384x4750x2620	14960x4310x2620
	132	16250x4310x2620	14562x4750x2620	16250x4310x2620
		10、 11、 12	9、 10、 11	10、 11、 12

RING SPINNING FRAME FA538



PRODUCTS INTRODUCTION

Model FA538 Ring Spinning Frame is a new machine designed and developed by Tongda Textile Machinery Co.,Ltd. Feeding a single simplex roving, it is suitable for spinning cotton, synthetic fibers and their blends to produce weaving and knitting yarns. The spinning processes can be set by means of man-machine dialogues through a Touch Screen Panel, and an interface or computer network is ready for expanding. The Autodoffer system can be an option for customer to make choice. High speed, high efficiency, good quality and good stability and reliability are its obviously outstanding characters. It can be linked with Auto-coner to become a Ring-coner.

THE AUTO DOFFER IS YOUR BEST CHOICE TO DECREASE THE COST AND INCREASE THE OUTPUT

The Auto-doffer's structure combines the advantages from doffers in and out country. In and out swing and lifting of arms are controlled by servomotor and the lifting actions are accurate and reliable. Larger piston grippers have accurate and stable ejecting and lifting tube actions. The whole and endless. After the doffer mounted, spinning cost is reduced largely and the connection of ring springing machines to winders can be obtained.

MAKE SPINNING SUCCESS

HIGH SPEED, HIGH EFFICIENCY AND STABILITY

CAPP technology improves the design of frame arrangement and ensures vibration free property and smoother running.

The spindle driving: The tape pulley is made from ABS material a tapered type looking for pulley, reduce the weight of pulley, reduce the power consumption and, high precision and a excellent noise, it makes a smooth driving, high precision and a excellent performance at high speed.

The maximum medical speed for spindle is up to 25,000rov/min.

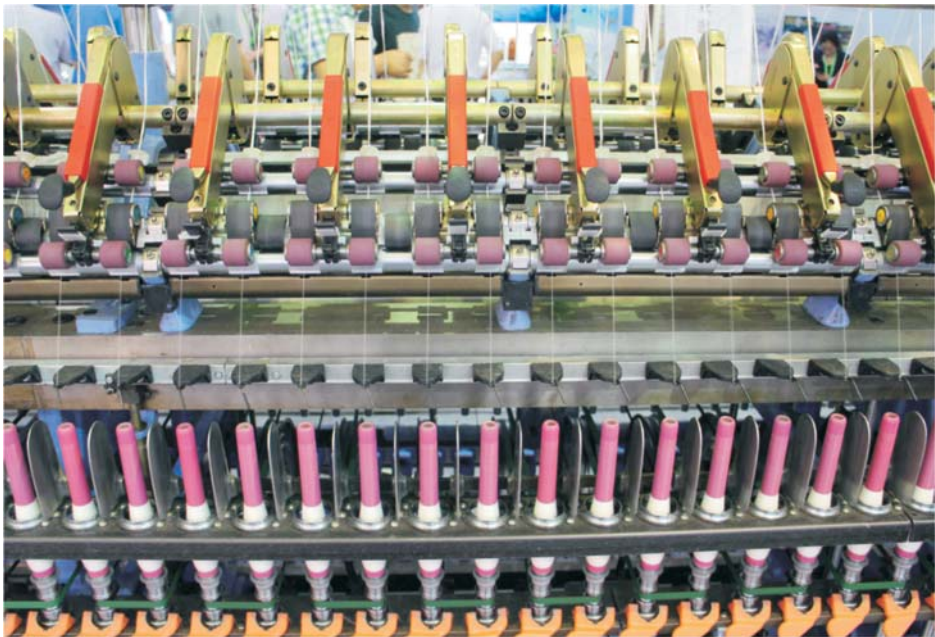
Both headstock and off-end driving system drives in synchronism, ensure driving precision.

CLEANING, SILENCE AND BETTER ENVIRONMENT

The headstock is equipped with a suitable closed circulating bathing lubrication and a steel helical gear driving which ensure a sufficient lubrication and smoother drining, the beadstock also can be equipped with open auto-dripiing lubrication and catching oil pan. Optimum design of variable cross section air channel, ensure bowest load on the headstock and tailstock even in high speed and improve suction effect.



ADVANCED DESIGN,SIMPLE OPERATION AND BETTER YARN QUALITY



Front bottom rollers in driving unit,whichare without mechanical periodic waves,middle top rollers covered with carbon fiber ensure the superior spinning quality. Synchronizing Drafting and driving system avoids twist vibration and torsion of rollers and decreases the end breakage on the long machine. Equipped with the newly manual spindle brake to simplify to operation of the tenders and increase greatly the piecing rate. An imported servo controller controls thelifting of rails. Winding types cab be adjusted by man-machine interaction and operation is simple and convenient.

The drining system is equipped with worms and worm wheels which are of nonclearance design with high precision so that cam stagnation is eliminated and finished cops without coil slippage can be obtained during winding in high speed.

AUTOMATION OF BOBBIN TRANSPORTATION AND PERSONALLIZATION OF SMART MECHANICS

Traverse movement of cylinders on both sides accomplish the bobbin transportation and the bobbin transportation is of high precision and reliable. Cam disc system is with compensating function that ensures proper transport action of cam disc . The doffing is completed with cute-yarn devices and transport belts. Bobbin reading unit is of antiblock bobbin function and distinguish function of big from small en of bobbins automatically. The accurate detectors of optical,electric, magnetic are used to interfere in spinning process manually and make trouble alarm. The manual control step by step simplifies the adjustment. Optional three or two path lifting system, and equipped with the balloon ring,it is good for adjusting dynamic balloon and reduce yarn breakage. The roving creel is shaped by steel plate, make perfect looking. Equipped with traveling cleaner,core spandex yarn spinning device,slubby yarn spinning device and roving traveling device. (option)



FA538 RING SPINNING FRAME FRONT AND PLAIN VIEW

No of spindles	600	624	648	672	696	720	744	768	792
M	15	15	16	17	17	18	19	19	20
L1	21330	22170	23010	23850	24690	25530	26370	27210	28050
L	25380	26220	27060	27900	28740	29580	30420	31260	32100
No of spindles	816	840	864	888	912	936	960	984	1008
M	21	21	22	23	23	24	25	25	26
L1	28890	29730	30570	31410	32250	33090	33930	34770	35610
L	32940	33780	34620	35460	36300	37140	37980	38820	39660

MAIN TECHNICAL DATE

Spindle Gauge	70mm (FA538 75mm)
No.of spindles	From 600 up to 1008 with increment by 24
Lift	200,180mm (Aluminum type spindle) 205,180mm (Bare blade type Spindle)
Ring Dia	Φ35, Φ38, Φ40, Φ45mm
Yarn Count	4.86-97.2tex(120-6Ne)
Twist	230-1740 (T/m)
Spindle Speed	12000-25000 (rpm)
Draft Ratio	Total draft:10-50 Rear Zone draft:1.06-1.53
Twist Direction	Z or S
Draft System	3 line rollers,double aprons(long and short), pendulum arm weighting
Spindle	Aluminum type or bare type with knee brake
Roving Creel	Φ128x320mm Bobbin hangers of four rows in single tier with roving truck Φ152x406mm Bobbin hangers of five rows in single tier Φ152x406mm Bobbin hangers of six rows in single tier

RING SPINNING FRAME FA506



Exact headstock driving system is the foundation of producing high quality yarn.

The headstock of FA506 is equipped with open auto-dropping lubrication and smoother driving.

The headstock of FA506 is equipped with a closed circulating bath lubrication. It is clean and tidy. It ensure a sufficient lubrication and smoother driving.

Adopt the CAPD technology,optimize arrangement of middle frame,add up the spring pieces,ensure a better aseismic property and smooth running.

The machine adopts the high precision main shaft,and the driving is stable and reliable.

The maximum mechanical speed for spindle is up to 25000rov/min.

Optimize design for the air channel,improve the suction effect,ensure the least different air suction at high speed running.

For building can driving motion, using the precise worm box,eliminate the interim stopping,ensure without the coil slippage while winding-on high speed wider.

The roving creel is shaped by steel plate,makes perfect looking.

Equipped with traveling cleaner,corespandex yarn spinning device,

Slubby yarn sinning device and roving traveling device.(Option)

The machine can equipped with many kinds of compact spinning device.

Up-suction and underground-suction are at customer's option.

Equipped with top pulley made from ABS material,option.

PRODUCTS INTRODUCTION

Ring Spinning frame series are made from the leading design proposal,advanced manufacturing methods and perfect special parts and components. They ensure high quality yarn spring. The machine features convenient operation and easy to management due to its high automation. It is suitable for spinning of cotton and synthetic fibres or their blends to produce weaving or knitting yarns.



FLAX WET SPINNING MACHINE FX502



On the basis of introducing and making use of modern advanced technology of west Europe, FX502 flax wet spinning frame has become a new kind of machine, can be used in making flax spun yarns between 5.5~54Nm, wet processing in ramie and hemp as well.

The machine is equipped with auto break roller system,with sensitive and reliable air-pressure unit,low break rate is guaranteed,low break rate is guaranteed,it has the characteristic of high metric Nos.and rotation speed,stable body,etc. can be used widely.



TECHNICAL DATA AND SPECIFICATIONS

Spindle gauge	88mm
No.of spindle	256
Type ring	PG2-6274
Type spindle	D3501,D4501
Metric No	5.5~54Nm
Draft ratio	8.5-36
Lifting	210mm
Twists	350-800T/m
Speed of spindle	5000-8000rpm
Draft system	Single zong , single apron , two-wsy cylindet
Twist firection	Right
Creel	Suspended and seated spindles
Main motor	15/7kw
Overall dimension	12328(L)x1525(W)x2230(H)mm

MAKE SPINNING SUCCESS

NOTE

NOTE

This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dashed lines, providing a guide for letter height and placement. The lines are evenly spaced across the entire page, which is otherwise blank.