



Branches

Shandong Tongda Textile Machinery Co., Ltd
Qingdao Tongda Textile Machinery Co., Ltd
Qingdao Kaishuo Water jet loom Co., Ltd
Qingdao Tongda Nonwoven Machinery Co., Ltd
Shandong Tongda Nickel screen Co., Ltd
Shandong Tongda synthetic leather Co., Ltd

Contact us

Shandong Tongda Textile Machinery (Group) Co., Ltd
#16, Zaoyuan Road, Qingdao, P.R. China.
Tel: 0086-532-8092 2607
Fax: 0086-532-8092 2607
Mobile: 0086-1866 3901 627
E-mail: sales@china-tongda.com
Website: www.china-tongda.com



THE PROFESSIONAL SPINNING SYSTEM
——GUARANTEE YOUR YARN SPINNING SUCCESS!



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.

TEST ROOM FOR BLOWING-CARAING UNIT



FA017 RECIPROCATING BALE PLUCKE



Application

The machine is the carriage reciprocating type automatic bale plucker, applicable to raw cotton of various grades and man-made fibers below 76mm. This machine is also the first process of the combined opening and scutching machine or the blow room unit, and its intermittent dropping plucking beater can reciprocate with the revolving tower and the carriage,pluck bales in sequence, and then convey materials to the next machine through transport fan and pipes.

Characteristics

- ◆ Adopt Plc control and multi-motor transmission with inverters (7 motors) for whole machine. According to the technology requirements, the machine can be adjusted freely within certain range, and can be tested automatically to realize complete automatic plucking.
- ◆ Bales can be placed on both sides. The machine can pluck less than 3 groups of bales withdifferent height and density. The pluck arm can revolve 180° automatically or manually, thus to meet the requirement of varieties for one unit two lines.
- ◆ Adopt double saw-toothed beaters to meet the requirement of complete, even and fine plucking.

Main technical parameters		
parameters	beater width 1720 (special)	beater width 2300(normal)
production	1000kg/h	1500kg/h
basic pile weight	6000kg	7500kg
length of floor space	basic type 22.03m(8 sections of airducts)	can be increased or decreased by 2.5m×n
bales arrangement length	basic type 15.9m(8 sections of airducts)	can be increased or decreased by 2.5m×n
beater dia., speed	double beater saw-toothed blades Φ250mm	Mechanical Φ130~1161 Passive Φ105~1437 Inverter 800~1500rpm
distance from beater knife point to the floor	1600mmmax. position 1600mm;	30mmmin. position 30mm
intermittent dropping of beater	0.5~10mm/time frequency control	usually 1~3mm/time
distance of blade out from rib	(-6~+3) mm adjustable	generally -2mm
calender roller dia.	Φ130mmboth sides	middle Φ116mm
carriage reciprocating speed	14.6m/min (max)	generally 10m/min
installed power	8.6kw(excluding fan, winding)	10.6kw(excluding fan, thermo motor)
overall size (mm)	22030*5212*3082	22030*6648*3082
net weight (kg)	6000	6500

FA002D DISK PLUCKER



Application

This machine is the first process in the whole blowing-carding line. It's applicable to pluck various kinds of raw cotton and polyester of the length≤76mm, and then convey them to the next process through airflow.

Characteristics

Adopt saw-toothed beaters, which are divided into 3 groups, and fixed from inside to outside according to the tooth setting from thin to thick so as to get fibers minor and uniform, thus it's advantageous to the blending and cleaning of next process.

Main technical parameters	
Output	800kg/h
Loading capacity	2000kg
Beater width	1680mm
Beater speed	740 or 900rpm
Revolving speed of carriage	1.4, 2.16rpm
Blade extension from rib	2.5-7.5mm
Total power	4.1kw
Rail diameter	Φ5132mm
Total height	4125mm
Total weight	about 2000kg

FA126 WEIGHT SEPARATOR



Application

Mode FA126 Weight Separator is used to remove heavier trashes and foreign matters in fiber tufts through centrifugal forces under the function of air currents. When iron matters pass through the bridge magnet, these matters are sucked and removed (with the function of semicircle grid bar, trashes are separated from fiber tufts). Then fibers are conveyed to the next process through suction pipes.

Characteristics

- ◆ The trash in fiber will be removed through centrifugal force without damage to fiber when they pass through the semicircle grid bar channel.
- ◆ The angle of grid bars can be adjusted flexibly.
- ◆ The transport fan and the bridge magnet are connected with the machine directly, in compact structure, and occupying less floor space.
- ◆ The machine is equipped with continuous dust suction device, so the impurities can be collected to the dust filtering system.

Main technical parameters	
Applicable fiber	below 76mm
The working width	500mm
Overall size	1850*860*2800

FA027 MULTI-MIXER



Application

The machine is applicable to various grades of basically opened raw cotton, cotton type man-made fiber and medium staple fiber below 76mm, which can be carried to the mixers by transport fan and evenly mixed three times in each mixer, and then conveyed to the next machine by air currents.

Characteristics

- ◆ Adopt 3 scientific and efficient mixing ways:
(1) airflow instant mixing
(2) lamination mixing
(3) close mixing (feeder type)
- ◆ Adopt two directly-linked transport fans, and frequency control for the conveying fans.
- ◆ Adopt micro pressure difference control, and the feeding start and stop of the previous machine can be interlocked to realize automatic feeding when the

pressure of 6 mixers varies to certain setting value.

- ◆ Adopt 3-unit frame work structure, which can be dismantled for convenient transportation. Mostly adopt fixed doors sealed with inserted strips for the whole reserve box so as to obtain stable air pressure control.
- ◆ Adopt several infrared photoelectric auto stop motions:
(1) the reserve box (adjacent to the feeder box in front), one pair
(2) The feeder blending hopper, one pair
(3) At the joint of droppings and suction mouth, one pair
(4) When the door is open during operation, an auto stop switch is fixed.
- ◆ Adopt mesh plate for the reserve box, which can let the conveying currents out smoothly to separate materials from currents and to remove short fibers.
- ◆ Bigger trashes can be removed at the under casing of inclined lattice.

Main technical parameters	
Mixer No.	6pcs (6-mixer full amount 300kg), machine width 1200mm production 150~600kg/h
Installed power	1. Feed fan: 5.5kw (or 4kw) 2. Transport fan: 4kw 3. Horizontal lattice motor: 0.55kw 4. Evener motor: 0.55kw 5. Stripping motor: 0.55kw 6. Inclined lattice motor: 2.2kw
Air consumption	Feed fan, frequency control, generally 4320m3/h, air speed 13m/sec.; output 4320m3/h, fan 8~13m/sec. Backpressure inside the air exhaust tube: (0~100) Pa, (-50~-100) Pa generally. Air amount of dust exhaust outlet: 1800m3/h
Net weight	about 4800kg, overall size (mm): 6250×1624×4145 (L×W×H)

FA036 BLENDING OPENER



Application

With the suction of condenser, the machine can blends, opens and cleans the materials fed by the automatic bale plucker. As a high-efficient blending machine, it can process various kinds of raw cotton ro polyester.

Characteristics

- ◆ This machine embodies not only blending function, but also high opening and dust extraction efficiency. Its dust extraction rate is superior to those of the similar machines.
- ◆ Adopt integrated steel frame type, good shockproof and stability.

Main technical parameters	
Width	1060mm
Power	2.05kw
Output	600-800kg/h
Overall size	4088*1585*2696mm
Machine weight	about 3.6T



FA117 FINE OPENER

Application

The machine is a kind of new and high-efficiency fine opener, which is generally located behind the multi-mixer and before the chute feeder for the purpose of further trash extraction and material conveying control. With the conveying of transport fan, raw materials are fed through inlet to the stepped passage, then transferred to the feed roller, beaters and mote knife components through the dust cage and the flat roller, and finally conveyed to the next process by air currents after being opened and cleaned.

Characteristics

- ◆ Adopt through shaft type beater, including two kinds, gill pin type and saw-toothed type, generally saw-toothed type.
- ◆ Adopt combined beater mote knife and arc dust shield type, low fiber damage and high trash extraction efficiency.
- ◆ The beater is equipped with an anti-rolling device, which can efficiently prevent machine jams.

Main technical parameters	
Production	400kg/h, width 1200mm
Beater	Φ400
mechanical speed	regulation 445、615、689、950rpm, frequency control generally 400~1000 rpm
The main motor	Y112m-4-4kw(beater)
Feed roller motor	XWD-99-0.55KW
The feed roller	Φ60mm,Φ78mm
Net weight	2000kg
overall size	1881×1718×3931mm(L×W×H)

FA117A FINE OPENER

Application

This machine is applicable to process various grades of raw cotton or polyester of the length≤76mm, and it's the last process in the blow room line. The unpowered condenser sucks raw cotton into the conveying passage. After being opened and carded by the beater, thesmaller nubby materials get further opened. trashy and short fibers are removed through mote knife and dust cage, and then materail will be conveyed by airflow to the next process.

Characteristics

- ◆ Adopt new technology-unpowered condenser to increase the production, upgrade the running reliability of the whole line, and improve the extraction efficiency of dusts and short fibers.
- ◆ Adopt dust cage cyliner device to further reinforce the disposal function of micro dusts.
- ◆ Adopt graf wires for the beaters to strengthen the scientific opening, and to get fine opening efficiency, less fiber damage and neps.
- ◆ Adopt bow-shaped assembled adjustable mote knife device, whose gauge can be adjusted eccentrically and conveniently while on-line running with high dust extraction rate.
- ◆ Adopt photoelectric control, with anti-rolling device and inverter control transmission, airflow dusts and noil extraction, high level of automation.

Main technical parameters	
Working width	1200mm
Output	600kg/h
Beater type	two kinds, gill pin type or saw-toothed type, Φ400mm
beater speed	445, 615, 689, 950rpm or speed control by inverter
Feed roller diameter	Φ60mm, Φ78mm
Total power	8.55kw
Total net weight	3000kg
Overall size (L*W*H)	1881*1781*3965mm





Application

This machine is the connecting unit between carding machine and blow room line. It is used to process the evenly opened and blended fibers into uniform cotton layers, feed them to carding machine and ensure the continuous and even cotton supply of carding machine to guarantee the continuity of blow-carding line.

Main technical parameters	
working width	920mm
output	20-60kg/h
feed roller diameter	Φ95mm
opening roller diameter	Φ240mm
delivery roller diameter	Φ98mm
fan speed	2840rpm
installed power	1.22kw
overall size (mm)	1330*515*3625



PLC central control, with good stability and reliability; The big touch screen setting and display of all technological parameters. Adopt continuous feeding control system and ratio tracking, to realize continuous and uniform feeding.

MODEL FA204C CARDING MACHINE



Main echnical parameters	
This machine is used for	processing cotton and man-made fibre or blends in length 22~76mm
Delivery 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, 938, 1039rpm
Doffer diameter	Φ706mm
Cylinder diameter	Φ1289mm
Cylinder speed	323, 360, 403r/min
No. of revoling flats(working/total)	39/104
Auxiliary carding parts	Taker-in carding segment,front 3 rear 2 stationary flats or front 4 rear 2 stationary flats with 1 web purifier.
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 wastes,suitable for high speed and high production
Continuous suction	air exhaust amount 2800-3500m3/h for continuous suction.

FA204K CARDING MACHINE



Main echnical parameters	
This machine is used for	processing cotton and man-made fibre or blends in length 22~76mm
Delivery 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, 938, 1039rpm
Doffer diameter	Φ706mm
Cylinder diameter	Φ1289mm
Cylinder speed	323, 360, 403r/min
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Motor for feeding roller	0.55kw
Floor area(LxW)	3732*2033(mm)
Net weight	approx.5500kg
Optional	
Blowing-carding-drawing unit	Without cotton wastes,suitable for high speed and high production
Continuous suction	air exhaust amount 2800-3500m3/h for continuous suction.

FA206B CARDING MACHINE



Intelligent Control

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

High quality & high efficiency

- ◆ Sophisticated Suction System Provide Better Opening and Cleaning.
- ◆ Independent Transmission Motors Adjusted by Inverters For High Efficiency

Easy poeration & maintenance

- ◆ User Friendly Graphical Interface
- ◆ Easy access to control Parameters.
- ◆ Smart Mechanical Design Mskes Maintenance An Easy Take

Main technical parameters	
Width	1020mm
Delivery speed	20-220m/min
Output	25-80kg/h
Sliver weight	3.5-6.5g/m
Air amount for continuous dust suction	3500m³/h, air pressure-850~950Pa
Compressed air	0.4-0.7MPa
Air consumption	0.01m³/h, if the machine is equipped with closed-loop autoleveller,the air consumption is 0.03m³/h
Floor space	3132*1974mm (L*W) (without coiler)
Total power	6.88kw
Machine net weight	5500kg

MODEL FA206C CARDING MACHINE

FA206C carding machine is a newly-designed product on the basic of mature productive technology of FA206B series carding machine for improving its quality and producon, at the same time, the superior technology and the technical performances are maintained and opeimized, thus it has been developed into a generation-changing product which integrated the practical function with aesthetic design.



Characteristics

It embodies stable high-production base Integrated side frames are designed for ensuring its strong stability.

High-efficient transmission system. Adopt individual motor transmission controlled by inverters for cylinder, Doffer and feed roller. Synchronous belt transmission, Stable, accurate and low noise.

High-efficient carding and cleaning system. Adopt front 4 rear 7 aluminium alloy stationary flats, front 1 rear 2 web purifiers.

Optimized sliver delivery system. Adopt reversing type condenser and cross apron web-collecting system combination to reduce accidental broken ends, which guarantees the machine's high-speed and high production.

High-efficient dust suction system. Central waste moulding structure for the dust box. No flyings and convenient observation and maintenance.

High science& technology electrical control system. With multiple stop motions, PLC control for the whole machine, technological parameters adjustment by touch screen and all kinds of trouble display.

Main technical parameters	
Width	1020mm
Delivery speed	20-260m/min
Output	30-95kg/m
Sliver weight	3.5-6.5g/m
Air amount for continuous dust suction	3500m³/h, air pressure-850~950pa
Compressed air	0.4-0.7MPa
Air consumption	0.01m³/h, if the machine is equipped with closed-loop autolevel-ler, the air consumption is 0.03m³/h
Floor space	3192*1974mm (L*W)
Total power	7.58kw
Machine net weight	5800kg

A186H CARDING MACHINE



Application

The preceding process of the machine is combined opening and scutching machine and the following process is drawing frame.
The machine is mainly used for the processing of cotton (chemical fibre) laps and cotton (chemical fibre) layers. The machine combs the curly cotton (chemical) lumps moving from the preceding process or feeding hopper to straight single fibres. Meanwhile the impurities will be removed. Then it spins them into standard slivers and stored in a sliver can for next process.

Main specification and technical characteristics	
Model	Right-handed (standing in front of the machine, facing to the doffer)
Breadth	1020mm
Applicable lap	Maximum diameter Φ550mm Width 980mm
Cylinder working diameter	Φ1289mm
Cylinder speed (selective)	330rpm(for chemical fibre) 360rpm(for cotton)
Doffer working diameter	Φ707mm
Doffer speed	19-35.7rpm
Total draft	67.3-120.2
Motor	Main motor: 3.3kw Doffer motor: 0.75/0.34kw Fan motor Model F: 0.06kw
Floor area(L*W)	3684*2009.5mm (L*W)
Net weight	4500kg
Output	15-30kg/h

BC262A TEASER CARD



Application:

This machine is applicable to preliminarily open, blend and extract trashes from all kinds of cleaned wool and man-made fiber with an amount of emulsified oil(i.e. Wool oil) added in order to make fibers fluff and evenly blended for the carding and slivering process of woolen and worsted spinning line.

Design features:

- 1. Adopt two blower fans and cyclone dust cage feeding, blower fan airflow conveying, "S" blow head output.
- 2. Dust cage and oiling can are both made of stainless steel.

Main specifications and parameters:

- 1. Width: 1200mm
- 2. Cylinder diameter Ø1064mm; Doffer diameter Ø590mm; Working roller diameter Ø178mm; Stripping roller diameter Ø158mm.
- 3. Cylinder speed: 201rpm, 227rpm; Doffer speed: 888rpm
- 4. Output: 1000~1500kg/h per set.
- 5. Total power: 23.6kw
- 6. Floor area:
The main frame: 3920mm×2610mm;
Oiling motion: (L×W)2380mm×1100mm;
Blower fan: (L×W)1095mm×1400mm;

B272A WORSTED CARD



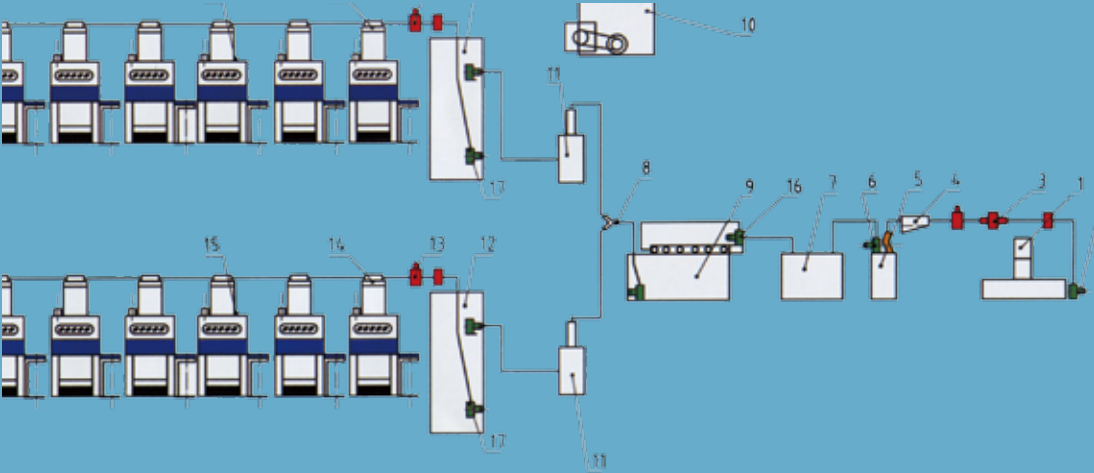
Application

The function of the machine is to open, purge, mix and comb the cleaned, mixed, primarily opened and oiled wool, and the chemical fibre of certain length into siliver for the following process.

Main specifications and technical parameters	
Type	upstriker half-circular type
Model	right-handed
Applicable material	assorted domestic wool foreign wool: 48-70s (within 200mm length)
Breadth	cylinder width: 1550mm
Feed form	automatic
Feed frequency	3.1-3.5times/min
Output	45-62kg/h
Sliver weight	15-20g/m
Cylinder speed	161.7 rpm cylinder linear speed: 654m/min
Doffer speed	16-26rpm
Burr removing points	3pcs, with a droppings conveyer
Stripping form	chopper, 1463, 1730 times/min
Slivering form	can coiler
Electric motor	total power 6.85kw
Overall size (mm)	(L*W*H) 9500*3500*2500
Machine weight	about 10 tons

THE MAIN PROCESS FLOW OF DJ2006 BLOWING-CARDING UNIT

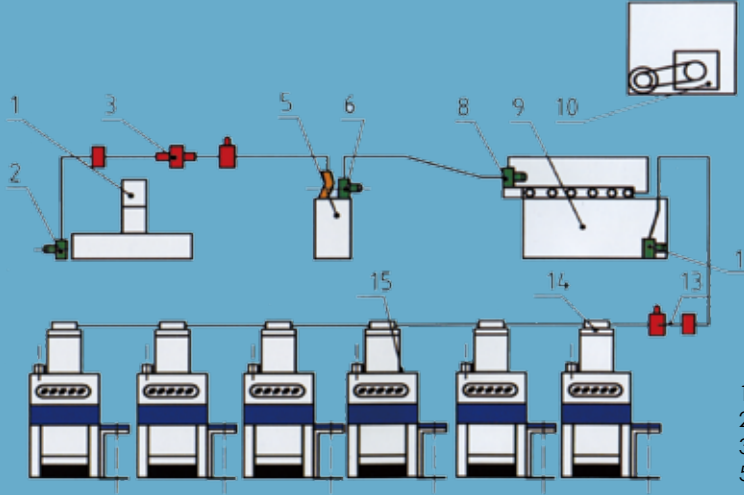
(100% cotton ring spinning, 20000 spindles two varieties)



- | | | | | | |
|---|-----------|---|----|---------------|-------------------------------------|
| 1 | FA017-230 | Reciprocating bale plucker | 10 | LF108 | Dust filter |
| 2 | DF245 | Transport fan | 11 | FA117 | Fine opener |
| 3 | AMP-2000 | Spark and metal detector (purchased part) | 12 | FA157 | Dust remover |
| 4 | DJ001 | Dust cleaner | 13 | 119A | Spark detector (purchased) |
| 5 | FA126 | Weight separator | 14 | FA179D/FA179S | Chute feeder |
| 6 | DF240 | Transpot fan | 15 | FA206B | Carding machine (with autoleveller) |
| 7 | FA107 | Single roll opener | 16 | DF220 | Transport fan |
| 8 | DJ002 | Two-way distributor | 17 | DF210 | Transport fan |
| 9 | FA027-160 | Multi-mixer | | | |

THE MAIN PROCESS FLOW OF DJ2006 BLOWING-CARDING UNIT

(100% cotton ring spinning, 10000 spindles two varieties)



- | | | |
|----|---------------|---|
| 1 | FA017-172 | Reciprocating bale plucker |
| 2 | DF245 | Transport fan |
| 3 | AMP-2000 | Spark and metal detector (purchased part) |
| 5 | FA126 | Weight separator |
| 6 | DF240 | Transpot fan |
| 8 | DFA220 | Transport fan |
| 9 | FA027A-120 | Multi-mixer |
| 10 | LF108 | Dust filter |
| 13 | 119A | Spark detector (purchased part) |
| 14 | FA179D/FA179S | Chute feeder |
| 15 | FA206B | Carding machine (with autoleveller) |
| 17 | DF210 | Transport fan(frequency control) |

FA318A DOUBLE HOLES HIGH SPEED DRAW FRAME WITH AUTOLEVELLER



FA318A

This type machine can improve the sliver quality, which adopts Short fiber auto leveller system (Uster, Switzerland) and five patents (concentration lubricating device, interval sealing device, compelling lubricating device, auto-shaving cotton device, draft driving mechanism). So this could control the drafting quality of sliver. FA318A adopts 5 over 4 with pressure bar drafting style, which can advance the uneven condition of force. It is suitable for short fibre.

- Delivery number: 2 holes
- Maximum output speed: 800m/min
- Total drafting multiple: 4-14 times
- Drafting style: 5 over 4 with pressure bar
- Feeding sliver number: 6-8 pcs
- Suitable fiber length: 15-76mm
- Input can dimension: $\Phi 400, \Phi 500, \Phi 600, \Phi 800, \Phi 900, \Phi 1000$ can height: 900, 1100 (1200)mm
- Output can dimension: $\Phi 350, \Phi 400, \Phi 450, \Phi 500, \Phi 600$, can height: 900, 1100mm
- Mainframe OAD: 2490x1000x2110mm
- Weight: 2400KG
- Motor power: 5.5KW



FA316B HIGH SPEED DRAW FRAME



Machinery Feature

1. the machine is suitable for fiber variety and high output speed
2. adopt high quality four-up and four down guide roller, pressure stick style double-curve drafting structure, the sliver quality is good and steady
3. Can choose the frequency converter to dominate stepless timing turning round at an average speed, favorable to the sliver quality
4. adopt PLC and test screen the manifestation holds the operation, making electric appliances control more stable dependable convenience
5. ideal photoelectricity self-ceasing unit, the photoelectricity self-ceasing unit is in front of the sliver flowing machine, coiling roller self-ceasing unit, so the malfunction self-ceasing is more dependable
6. the automatic can changer selected by customers, can decrease the labor intensity of workers, and improve work efficiency

FA471/FA472 Three-shaft Linkage Computerized Type High Speed 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-shift 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□



FB471 ROVING MACHINE TYPE

FB471 roving frame is used types of three-axis computer-controlled high-speed linkage roving frame for worsted projects last procedure.the completion of 60~200mm less woll.hemp.chemical fiber.etc.or blends of pure spin.In the spinning process.the will and shall mature after the draft article.stretching, pulling small and processed into different count of foving.plus a certain twist.it has some strength.winding into a certain shape The rolls.made of spun yarn for textile spinning frame.



- 1.Suitable for square fiber length:60-200mm
- 2.Drawing multiple:4-16
- 3.Viscosity range:10-40 twist/m
- 4.The scope of Article:0.3-1g/m Feeding range:5-15g/m
- 5.Constant speed:The maximum mechanical speed 1200RPM
Maximum process speed 900RPM



FA538 RING SPINNING FRAME

FA538

- 1. Suitable for spinning cotton, synthetic fibers and their blends to produce weaving and knitting yarns.
- 2. The spinning processes can be set by means of man-machine dialogues through a touch screen panels.
- 3. Adopt cooling system for inverter.
- 4. Optimized the suction channel with variable cross section, thus ensure the less difference of suction air from the head-end to tail-end.
- 5. The auto doffer system can be added to decrease the cost.

Spindle gauge	70mm
No. of spindles	1008
Lift	200, 180mm (aluminum type spindle) 205, 180 (bare blade type spindle)
Ring diameter	Ø35, Ø38, Ø40, Ø42, Ø45
Yarn count	4.86-97.2tex (120-6 Ne)
Twist	230-1740 T/M
Spindle speed	12000-22000 rmp
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	aluminium type or bare type with knee brake
Type of creel	one tier hanger, four or sixrows optional

FA506 RING SPINNING FRAME



spindle gauge: 70mm
lifting: 205, 180, 155(mm)
ring diameter: $\Phi 45$, $\Phi 42$, $\Phi 38$ (mm)
number of spindle: 384, 396, 408, 420, 432, 444, 456, 468, 480, 492, 504, 516
yarn count: 97.2-4.9tex (6-120Ne)
twist: 300-1600 (T/m)
draft ratio: 10-50
spindle speed: 12000-18000(rpm)
spindle drive: single tension pulley, Z or S twist optional
creel: one tier hanger, four or six rows optional
spindle wharve dia. $\Phi 22$, $\Phi 24$, $\Phi 20.5$ mm
spindle wharce sia. $\Phi 152 \times 406$ mm
main motor: 15/7kw, 17/9kw, 18.5/11kw, 22/11kw (380v)
suction motor: 1.5kw (for No. of spindle below 444); 2.2kw (for No. of spindle below 456)
lifting motor: 370w
distance between spindles of left and right side: 700mm
total heiht of the machine: 2300mm
total length of the machine: $L=2380+(N/2-1)*70$ (mm) (N: No. of spindle)



RS30, RS35 ROTOR SPINNING MACHINE

With the based on digestion and absorption of the modern spinning technology and integrated the most advanced scientific and technological achievements, subdivide market requirement, which is especially ordered equipment for wool spinning, flax yarn, gloves yarn and so on particular yarn market.



Technical data:

Item	Unit	RS30	RS35
Yarn count range	tex(Ne)	120-16(5~36)	200-30(3~21)
Range of rotor speed	r/min	40000-110000	30000-80000
Rotor dia	mm	33, 38, 42, 50	42, 50, 54
Range of fiber length	mm	<40	<60
Opening roller speed	r/min	5000-10000	
Sliver count range	tex(g/5m)	5000-3000(15-25)	
Maximum winding speed	m/min	170	
Draft range		32-220	
Twist range	t/min	200-2250	
Pitch of spin boxes	mm	216	
Max. spin boxes	spindle	352	
Per spin boxes	spindle	16	
Dimension of cylinder tube	mm	Ø54×170	
Cone		4°20', 2°	
Maximum	mm	Ø300×150	
Maximum weight of yarn package	kg	≈4.5	
Can dimension	mm	Ø400×900, Ø350×914	
Pressure	Pa	5000-9000	
Noise	dB	<85	
Total motor power rating	kw	108	
Total exhausted air	m³/h	6210	



Higher production

The speed of rotor is up to 150,000 RPM
The actual speed of guiding yarn reaches 230 m/ min
360 spin boxes and 4pcs piecing devices are available.

Higher yarn quality

Spinning components in high-quality and piecing
Devices in excellent-performance which guarantee
To obtain high-quality yarn.



HJF1603 ROTOR SPINNING FRAME

Based on fererring advance technology of other domestic totor spinning frame, HJF1603 rotor spinning frame is a sort of high speed, efficient, large package and self-exhausting open-end spinning frame.



Main Features:

- 1. Machine can spin the yarn Nm 10-68 (100~14.7tex) directly from two passages drawing sliver Nm 0.2-0.45(5000-2200tex)
- 2. The machine can be pre-assembled packed and delivered section by section.
- 3. The machine is controlled by the programmable controller (PC), the machine has a display for monitoring the spinning processing parameters.
- 4. The machine can take up the taper package.
- 5. The machine adopts inverter to control motor speed and adjust spinning parameters.

Number of units	periods	Length
168	14	21185mm
192	16	23825mm

Main Technical Data:		
Gauge	200	
Number of units	168	
Rotor speed (rpm)	30000-75000	
Rotor dia.	Ø43, Ø54, Ø66	
Combing roller speed (rpm)	5200, 6200, 6700, 7200, 7700, 8200	
Drafting ratio	35-230.5	
Sliver count	0.2-0.45Nm (5000-2200tex)	
Take-up speed (m/min)	20-116.7	
Can dimension	Ø250×900, Ø300×900, Ø350×900	
Tube dimension	Ø68×Ø62×170 (3°30'taper tube) Ø56×Ø50×170 (cylinder tube)	
Package dimension	Ø300×150 (cylinder tube) Ø250×150(3°30' taper tube)	
Package weight	Approx. 4 (cylinder tube)	
Motor power (kw)	Rotor driving	2×11
	Combing roller driving	2×4.5
	Fan for third hand	1×3
	Fan for impurity discharge	1×4
	Conveyer belt driving	1×0.4 (with reducer)
	Gear box driving	2×1.5 (drawing)+2×0.75 (feeding)

TQF268ROTOR SPINNING MACHINE



Model		TQF268				
Rotor diameter (mm)		66	54	43	36	34
Rotor speed (*10000)(r/min)		3.1-4.5	4.0-6.5	6.0-8.0	7.9-9.0	8.0-10.0
Fiber length (mm)		15-60	15-40			
Number of spinning units		32, 128, 160, 192, 224, 240				
Space between spinning units (mm)		210				
Yarn count (Tex)		10-250 (59-2.4Ne)				
Sliver count	Cotton (Ktex)	3-7 (0.20-0.083Ne)				
	Synthetic fiber (Ktex)	2.5-5 (0.24-0.12Ne)				
Combing roller speed (r/min)		5000, 6000, 7000, 8000, 9000, 10000				
Maximum mechanical output speed (m/min)		≤170 (Parallel bobbin)				
		≤150 (Taper bobbin)				
Mechanical draft speed range (m/min)		First grade speed: 0.16-9.30				
		Second grade speed: 0.076-6.04				
Maximum cheese size (mm)		Parallel cheese: Φ300*150				
Maximum cheese weight (kg)		Parallel cheese: 4.2				
Cheese shape		Parallel cheese/ Taper cheese				
Tube size (mm)		Φ50/Φ56*170				
Cone core size (mm)		Φ33/Φ59*170				
Package density range (g/cm³)		0.32-0.42				
Max.dia.of the sliver can (mm)		Φ430				
Max. height of the sliver can (mm)		914				
Num. of spinning units of each section		16				
Drive of the rotor and the combing roller		Tangential belt				
Installed power (kw)		72				

MODEL GA016SF SOFT CONE WINDER

Model GA016SF soft cone winder is specially designed for winding copsincluding cotton, wool,artificial fiber and their blends into cone or cheese package for high temperature & high pressure dyeing processing.



Overall dimension

Number of drums	Sampson gauge	Total length
40	5080	6155
60	7620	8695
80	10160	11235
100	12700	13775
120	15240	16315

Specification

Type	Grooved drum type
Tranversing gauge(mm)	2.2-3.2
tranversing time(t/min)	14.2
Number of drum	60-80-100-120-standard.100s
Drum gauge(mm)	254
Yam traverse(mm)	147
Winding speed (m/min)	350-400
Size of full package(mm)	Baseφ 170×149
Drum	φ82mm2 2/1 turms
Cone density(g/cm3)	0.30-0.40
End-breakage automatic stop motion	Individual spindle control
Tension loose device	By change the tension weight,as cone diameter increased,the tension decrease to improve its evenness of the density.
Ribbon breaking	During running,make the motor tum on and off by means of Non-touching ribbon breaker switch at 32 times per minute
Drive:main motor	2 pcs.1.8kw 1440r/min
Pilot motor	1 pcs.0.37kw 960r/min

GA014MD CONE WINDER GA014MD

The machine is used for winding cops into cones for warping doubling or knitting process.



Overall dimension

drums	S	gauge	Total
40	4 5080	5080	5980
60	6 7620	7620	8520
80	8 10160	10160	11060
100	10 12700	12700	13600
120	12 15240	15240	16140

Specification

Type	Grooved drum type
Number of drum	40/60/80/100/120(standard.100s)
Drum gauge(mm)	254
Yam traverse(mm)	152
Winding speed (m/min)	510/575/643/713
Size of full package(mm)	Base φ 200×152
Drum	φ82mm2 2/1 turms
End-breakage automatic stop motion	Individual spindle control
Cone size	3°30'''/5°57/9°15'''paper bobbin(or6°wooden bobbin)
Ribbon breaking device	Non-contact intermittent Swith device
Form of supply	To suit spinning cops or thread bobbins of twisting frame
Cleaning device	Model GU013 cleaning blower
Operatue carriage	Model GU012 operative carriage
Yam clearer	Electronic clrarer with multi-functions
Bobbin holder	Single-arm holding type
Drive:main motor	2 pcs.1.8kw 1440r/min
Pilot motor	1 pcs.0.37kw 960r/min

