

FA002D型 圆盘式抓棉机

MODEL FA002D DISK PLUCKER



用 途

该机是开清棉的第一道工序，适用于抓取各种等级的原棉和76mm以下的化纤，通过气流输送到下一机组使用。

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 ≤ 76 mm, and then convey them to the next process through airflow.

特 点

该机采用锯齿刀片打手，自里到外由稀到密，分为三组，使抓取的纤维束小而均匀，有利于后道工序的混合、除杂。

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.

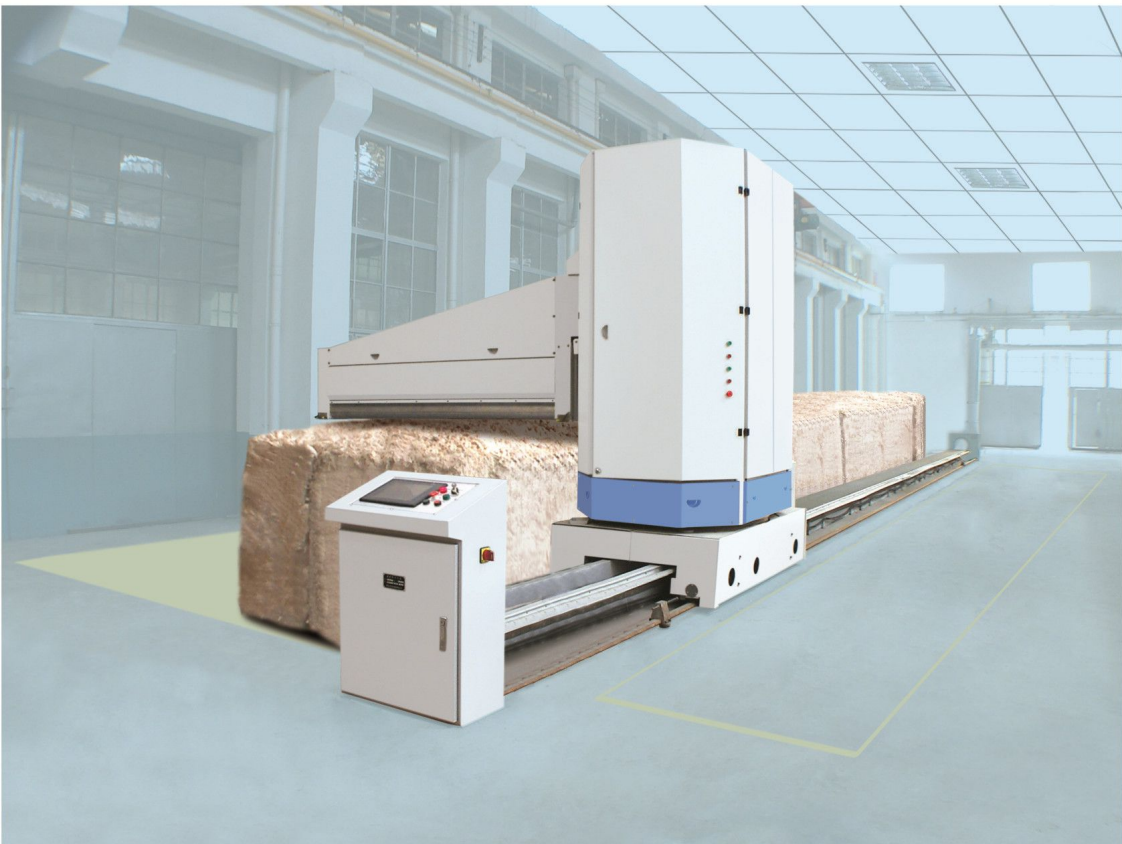
主要技术参数

Main technical parameters

产量: 800kg/h	Output: 800kg/h
堆放棉包重量: 2000kg	Loading capacity: 2000kg
打手宽度: 1680mm	Beater width: 1680mm
打手转速: 740或900 r/min	Beater speed: 740 or 900rpm
小车回转速: 1.4、2.16 r/min	Revolving speed of carriage: 1.4, 2.16rpm
刀片伸出肋条距离: 2.5~7.5mm	Blade extension from rib: 2.5~7.5mm
总功率: 4.1Kw	Total power: 4.1Kw
地轨直径: $\Phi 5123$ mm	Rail diameter: $\Phi 5132$ mm
总高度: 4125mm	Total height: 4125mm
机器重量: 约2000kg	Total weight: about 2000kg

FA017型 往复式抓棉机

FA017 RECIPROCATING BALE PLUCKER



用 途

该机为往复小行走式自动抓棉机，适用于各种等级的原棉或76mm以下长度的化纤加工，是开清棉联合机或清梳联的第一道工序，间歇式下降的抓棉打手随转塔和小车作往复运动，对棉包作顺序抓取，然后经输棉风机和管道，送到下一机台。

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-carding 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.

特 点

- ◆ 全机采用PLC控制，多电机传动且均配有变频调速（7台电机），可根据工艺要求，在一定范围内任意调节，全机自动检测，实现全自动抓棉。
- ◆ 抓棉机两侧均可堆放棉包，可处理3组以内不同高度和密度的棉包。抓臂可自动或手动回转180°，实现了一机二线多品种的需要。
- ◆ 采用双锯齿打手，实现了抓全、抓匀的精细抓棉的要求。

Characteristics

- ◆ Adopt PLC control and multi-motor transmission with inverters (7motors) for the whole machine. According to 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 with different 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.

主要技术参数 Main technical parameters

参数 parameters	打手机幅宽1720 (特殊) beater width 1720 (special)	打手机幅宽2300 (正常) beater width 2300 (normal)
产量 production	1000kg/h	1500kg/h
基本堆包重量 basic pile weight	6000kg	7500kg
包堆长度 length of floor space	基本型22.03米 (8节风道) basic type 22.03m (8 sections of airducts)	可按2.5米×n增减 can be increased or decreased by 2.5m × n
排包长度 bales arrangement length	基本型15.9米 (8节风道) basic type 15.9m (8 sections of airducts)	可按2.5米×n增减 can be increased or decreased by 2.5m × n
抓棉打手直径、转速 beater dia., Speed	双打手锯齿刀片 φ250mm double beater saw-toothed blades φ250mm	机械 φ130-1161 φ105-1437 变频 800-1500rpm Mechanical φ130-1161 Passive φ105-1437 Inverter 800-1500rpm
打手机尖离地距离 distance from beater knife point to the floor	最高位置1600mm max. position 1600mm	最低位置30mm min. position 30mm
打手机间歇下降量 intermittent dropping of beater	0.5-10mm/次变频调节 0.5-10mm/time frequency control	常用1-3mm/次 usually 1-3mm/time
刀片伸出肋条距离 distance of blade out from rib	(-6~+3) mm可调 adjustable	一般为-2mm generally -2mm
压棉罗拉直径 calender roller dia.	两侧 φ130mm both sides	中间 φ116mm middle φ116mm
行走小车往复速度 carriage reciprocating speed	14.6m/min(max)	一般为10m/min generally 10m/min
装机功率 installed power	8.6Kw(不含风机、卷绕电机) 8.6Kw(excluding fan, winding motor)	10.6Kw(不含风机、卷绕电机) 10.6Kw(excluding fan, winding motor)
外型尺寸 overall size (mm)	22030 × 5212 × 3082	22030 × 6648 × 3082
全机净重 net weight (kg)	6000	6500

FA027型 多仓混棉机

MODEL FA027 MULTI-MIXER



用 途

该机适用于经初步开松的各等级的原棉、棉型化纤及76mm以下的中长纤维，利用输棉风机将原料送入每个仓内过程中三次均匀混合，然后由气流输送到下一机台使用。

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.

特 点

- ◆ 采用科学有效的三种混合方式：
 - (1) 气流瞬时混和。(2) 叠层延时混和。(3) 密集混和(毛斗形式)。
- ◆ 采用两台直联输棉风机，送棉风机采用变频控制。
- ◆ 采用微差压控制，六仓压力变化到一定设置时，联动控制上线机给、停棉，实现自动给棉。
- ◆ 全机采用三部分框架式结构，可分拆以便运输，整个储棉箱多采用固定门，并采用嵌条密封，以便得到稳定的气压控制。
- ◆ 采用多处红外光电自停保护：
 - (1) 贮棉箱(最前靠毛斗箱)设有一对红外光电自停装置。
 - (2) 毛斗混棉箱，设有一对红外光电自停。
 - (3) 落棉与吸风口相接处，设有一对防轧红外光电自停。
 - (4) 工作门打开，设有自停开关。
- ◆ 整机储棉箱采用网眼板，可让输棉气流顺利溢出，实现棉气分离，并排除短绒。
- ◆ 斜帘漏底处，可除较大杂质。

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 framework 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.

主要技术参数

Main technical parameters

1、仓数：6仓(6仓充满棉量为300kg)，机幅1200mm，产量150-600kg/h。	Mixer No.: 6pcs (6-mixer full amount 300kg), machine width 1200mm, production 150-600kg/h
2、装机功率：13.35Kw。 (1) 进棉风机5.5Kw(或4Kw)；(2) 送棉风机4Kw；(3) 平帘电机0.55Kw； (4) 均棉电机0.55Kw；(5) 剥棉电机0.55Kw；(6) 斜帘电机2.2Kw。	Installed power: 13.35Kw 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
3、风量 (1) 进棉风机，变频可调，一般4320m ³ /h，风速8-15米/秒；出棉4320m ³ /h，风速8-13米/秒。 (2) 排风管中背压：(0-100) Pa，(-50--100) Pa一般。 (3) 排尘口风量1800m ³ /h。	air consumption Feed fan, frequency control, generally 4320m ³ /h, air speed 8-15m/sec.; output 4320m ³ /h, air speed 8-13m/sec. Backpressure inside the air exhaust tube: (0-100) Pa, Pa generally (-50--100). Air amount of dust exhaust outlet: 1800m ³ /h.
4、净重：约4800kg，外形尺寸6250×1624×4145(长×宽×高mm)	Net weight: about 4800kg, overall size (mm): 6250×1624×4145 (L×W×H)

FA036型 混开棉机

MODEL FA036 BLENDING OPENER



用途

该机是将各种原棉或76mm以下的化纤进行进一步的开松混合、除杂，然后送到下一机组使用。

Application

This machine is applicable to further open, blend and clean various grades of raw cotton or polyester of the length ≤ 76 mm, and then convey them to the next process.

特点

- ◆ 该机具有混棉作用，又有高度开松和除杂作用。
- ◆ 采用钢板结构，全封闭罩壳，美观大方。

Characteristics

- ◆ With blending efficiency, high opening and trash extraction function.
- ◆ Adopt steel sheet structure, totally-enclosed covers, Beautiful and tasteful.

主要技术参数

- ◆ 机幅：1060mm
- ◆ 产量：800kg/h
- ◆ 打手直径： $\phi 400$ mm
- ◆ 手形式：U型、豪猪型、梳针型
- ◆ 打手数量：3个，一般配置：2个U型、一个豪猪型
- ◆ 尘棒隔距：5~12mm
- ◆ 全机功率：5.65Kw
- ◆ 机器重量：4500kg
- ◆ 外形尺寸：5066 × 1600 × 2746mm (长 × 宽 × 高)

Main technical parameters

- ◆ Width: 1060mm
- ◆ Output: 800kg/h
- ◆ Beater diameter: $\phi 400$ mm
- ◆ Beater type: U type, porcupine type, gill pin type
- ◆ Beater NO.: 3pcs, generally 2 U types, 1 porcupine type
- ◆ Grid bar gauge: 5~12mm
- ◆ Total power: 5.65Kw
- ◆ Machine weight: about 4500kg
- ◆ Overall size: 5066 × 1600 × 2746mm(L × W × H)



FA107型 单轴流开棉机

MODEL FA107 SINGLE ROLL OPENER



用途

该机作为预清除机，装在抓棉机与仓混机之间，将原棉在自由状态下均匀密集地多次弹打，以排除大杂质，对原棉开松处理柔和，避免了纤维损伤。

Application

As the preparatory cleaner, the machine is located between the bale plucker and the multi-mixer. It's used to evenly and densely beat raw materials in freedom several times, to remove bigger trashes, and to flexibly open raw materials so as to avoid the fiber damage.

特点

- ◆ 机内设置排微绒装置（吸口）能有效的控制短绒的增长（在辊筒后上方配有网眼板及吸尘管道）。
- ◆ 采用V型打手，自由打击5.5圈后输出，其间除去大杂。
- ◆ 采用A、B、C、D四组尘棒，角度可调，安装角由小到大时落棉率增加，除杂效率高。
- ◆ 落棉输出由落棉小车、皮翼罗拉、出棉电机及清除顺序控制程序组成。
- ◆ V型打手采用变频传动，转速可根据工艺要求在400~800rpm之间调。

Characteristics

- ◆ Equipped with a microfiber extraction device (suction mouth) inside the machine to efficiently control the increase of short fibers (at the rear upper side of roller there equipped with a mesh plate and suction pipes).
- ◆ Adopt V-shaped beaters to freely beat materials 5.5 circles, then output them and meanwhile remove bigger trashes.
- ◆ Adopt four groups of grid bars A, B, C, D, with angle adjustable; With the setting angle changing from small to big, the droppings will increase to get high trash extraction.
- ◆ The droppings output is composed of droppings carriage, leather flap roller, output motor and the clear sequence control program.
- ◆ Adopt the transmission of frequency control for the V-shaped beater, and the speed can be adjusted among 400~800rpm according to technology requirements.

主要技术参数 Main technical parameters

产量≤800kg/h, 机幅宽1.6米。	Production≤800kg/h, width 1.6m
角钉辊尺寸Φ750×1594, 转速: 机械调节766、612、495rpm 变频正常400~800rpm, 一般770rpm	Spiked roller size: Φ750×1594, speed: mechanical adjusting 766, 612, 495rpm Frequency control normally 400~800rpm, generally 770rpm
尘棒型式: 根数68 隔距: 5.5~11mm, 安装角5°~30°	Dust bar type: 68pcs Setting: 5.5~11mm Setting angle: 5°~30°
主电机: Y132M-4 7.5Kw, 1430rpm 小车电机: BWDO350.37Kw 1430rpm	The main motor: Y132M-4 7.5Kw, 1430rpm The carriage motor: BWDO350.37Kw 1430rpm
外形尺寸(毫米): 1992×1132×1960 (长×宽×高)	overall size(mm): 1992×1132×1960 (L×W×H)

FA126型 重物分离器

MODEL FA126 WEIGHT SEPARATOR



用途

FA126型重物分离器，在气流的作用下，通过离心力去除纤维束中较重的杂质及异物。铁质物在通过桥式磁铁时，被吸附清除。（在半圆型尘棒通道的作用下，使杂质从纤维束中松释、分离），然后，纤维经吸风管道输送至下一工序。

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.

特点

- ◆ 纤维通过半圆型尘棒通道时，靠离心力除杂，不损伤纤维。
- ◆ 尘棒的角度可灵活调节。
- ◆ 输棉风机及桥式磁铁直接与本机相联，结构紧凑，占地面积小。
- ◆ 配有连续吸尘装置，杂质可直接吸入滤尘装置。

Characteristics

- ◆ The trashes in fibers will be removed through centrifugal forces without damage to fibers 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.

主要技术参数

- ◆ 适用76mm以下纤维
- ◆ 工作宽度为500mm
- ◆ 外型尺寸1850×860×2800

Main technical parameters

- ◆ Applicable fiber < 76mm
- ◆ The working width: 500mm
- ◆ Overall size 1850×860×2800

FA157型 除微尘机

MODEL FA157 DUST REMOVER



用 途

FA157型除微尘机适用于各种等级的原棉，用于清花流程中排出短绒和微尘，以减少纱疵，提高成纱质量，特别适用于气流纺纱工序。

Application

Model FA157 Dust Remover is applicable to various grades of raw cotton. It can remove short fiber and dust coming from the blow room process, reduce yarn faults and improve yarn quality especially for the OE spinning process.

特 点

- ◆ 在气流的作用下，纤维束与弧形网眼板碰撞后，以自由状态落下输出，完成除尘。具有不损伤纤维，除尘效率高。
- ◆ 喷棉方向由机械调节风门控制，无机械故障，运行可靠。

Characteristics

- ◆ With the conveying of air currents, fiber tufts drop down in freedom when they bump on the arc mesh plates, thus the dust extraction is finished, with no damage to fibers and high dusting efficiency.
- ◆ The output direction of materials can be controlled through a mechanically-adjusted throttle, which can ensure no mechanical failures and reliable running.

主要技术参数

- ◆ 机幅：1600mm
- ◆ 产量最高800kg/h
- ◆ 输入、输出及排尘管径 Φ 300mm
- ◆ 输入风机风量2500~4000m³/h，进棉口风压-150~-350Pa
- ◆ 输出风机风量1000~4000m³/h，出棉口风压800~1400Pa
- ◆ 排尘口风量3000~4500m³/h，排尘口风压-150~-350Pa
- ◆ 装机功率7.5Kw (4+3.5Kw)
- ◆ 外形尺寸 (长 × 宽 × 高) : 2175 × 1850 × 2650 (mm)

Main technical parameters

- ◆ Width: 1600mm
- ◆ Production: max. 800kg/h
- ◆ Pipe dia. of input, output and dust exhaust: Φ 300mm
- ◆ Air amount of input fan 2500~4000m³/h, air pressure of feed inlet -150~-350Pa
- ◆ Air amount of output fan 1000~4000m³/h, air pressure of outlet 800~1400Pa
- ◆ Air amount of dust exhaust outlet 3000~4500m³/h, air pressure of dust exhaust outlet -150~-350Pa
- ◆ Installed power 7.5Kw (4+3.5Kw)
- ◆ Overall size (L × W × H) : 2175 × 1850 × 2650 (mm)

FA179D型 气压棉箱

FA179D CHUTE FEEDER



一、用途

该机是梳棉机与清花机组之间的连接装置，其作用是将纤维进行开松、混合，形成均匀的筵棉层喂入梳棉机，以确保梳棉机的连续均匀供棉，实现清梳工序连续化。

1. Application

This machine is the connecting device between the cotton cards and the blow room unit, and it's applicable to open and blend fibers and process them into even cotton layers, and then feed them into cotton cards, so as to ensure the even continuous feeding for cotton cards and realize the continuity of scutching and carding process.

二、主要技术参数

- 适用原料：76mm以下天然或人造纤维
- 工作宽度：920mm
- 产量：100kg/h
- 给棉罗拉直径：Φ191mm
- 开松辊直径：Φ250 mm
- 风机转速：2900r/min
- 装机功率：3.37Kw
- 外型尺寸：1530×650×3700（宽×厚×高）

2. Main technical parameters

- Applicable material: Natural or man-made fiber < 76mm
- Working width: 920mm
- Output: 100kg/h
- Feed roller diameter: Φ191mm
- Opening roller diameter: Φ250 mm
- Blower fan speed: 2900rpm
- Installed power: 3.37Kw
- Overall size: 1530×650×3700（W×L×H）

FA179S型 气压棉箱

FA179S CHUTE FEEDER



一、用途

该机是梳棉机与清花机组之间的连接装置，其作用是将纤维进行开松、混合，形成均匀的筵棉层喂入梳棉机，以确保梳棉机的连续均匀供棉，实现清梳工序连续化。

1. Application

This machine is the connecting device between the cotton cards and the blow room unit, and it's applicable to open and blend fibers and process them into even cotton layers, and then feed them into cotton cards, so as to ensure the even continuous feeding for cotton cards and realize the continuity of scutching and carding process.

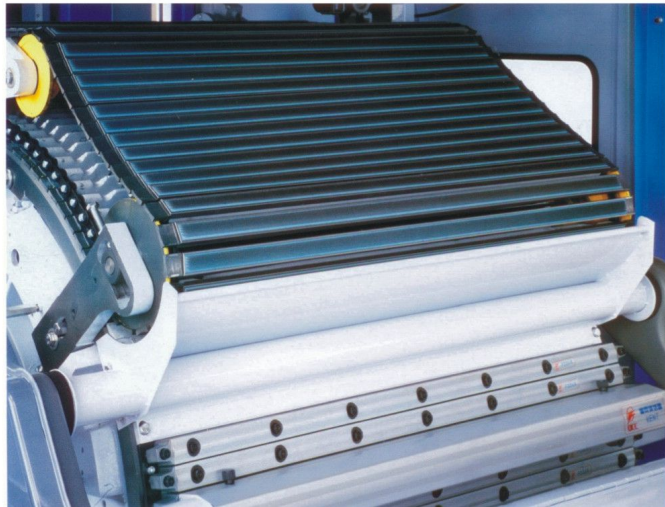
二、主要技术参数

- 适用原料：76mm以下天然或人造纤维
- 工作宽度：920mm
- 产量：100kg/h
- 喂入辊直径：Φ126mm
- 开松辊直径：Φ250 mm
- 风机转速：2900r/min
- 装机功率：3.37Kw
- 外型尺寸：1530×650×3700（宽×厚×高）

2. Main technical parameters

- Applicable material: Natural or man-made fiber < 76mm
- Working width: 920mm
- Output: 100kg/h
- Feed roller diameter: Φ126mm
- Opening roller diameter: Φ250 mm
- Blower fan speed: 2900rpm
- Installed power: 3.37Kw
- Overall size: 1530×650×3700（W×L×H）

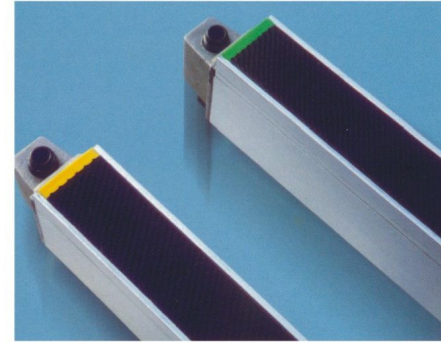
FA206B CARDING MACHINE



HIGH EFFICIENT CARDING SYSTEM
MODEL ALUMINUM ALLOY STATIONERY FLATS

GUARANTEE

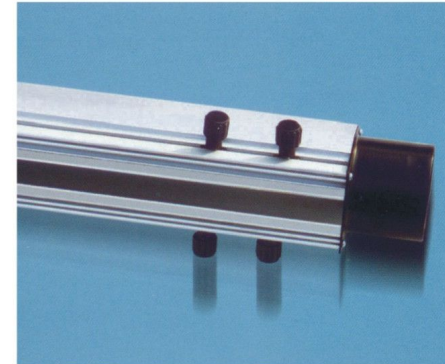
OF SINGLE FIBER CARDING AND EFFICIENT REMOVING NEPS AND TRASH



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.

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.



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

HIGH EFFICIENT CARDING SYSTEM

GUARANTEE

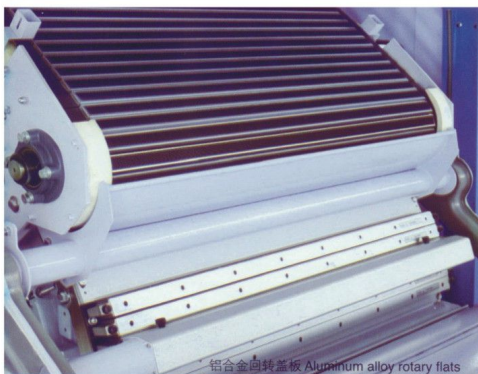
OF EFFICIENTLY REMOVING NEPS AND TRASH

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

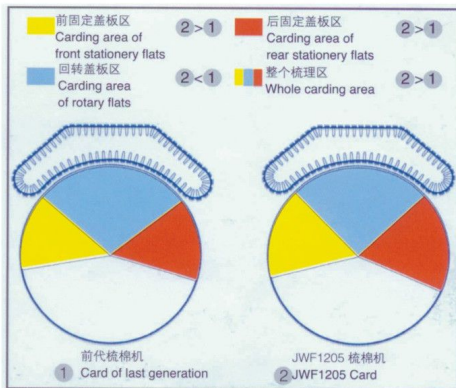
Precise and perfect entity cast iron cylinder with good stability and non-deformation is made by German resin sand production line to ensure different gauge between cylinder and flat for different material.

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.



铝合金回转盖板 Aluminum alloy rotary flats



分梳区调整对比 Contrast of carding area

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)	120	
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(Cheical fiber); 6 rear stationary flats(Cotton), 6~10(Cheical fiber)	
Web cleaner	Rear web cleaner(2), Front web cleaner(1)(Cotton)	
Can size(mm)	Diameter	Φ600, Φ1000
	Height	1100, 1200
Continuous suction(m ³ /h)	Air volume 4000	
Air pressure(Pa)	-920	
Compressed air requirement(kg/cm ²)	Pressure 5~7	
Compressed air consumed(m ³ /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 autoleveller	

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.



TECHICAL 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

RING SPINNING FRAME FA538



HIGH SPEED, HIGH EFFICIENCY AND STABILITY

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

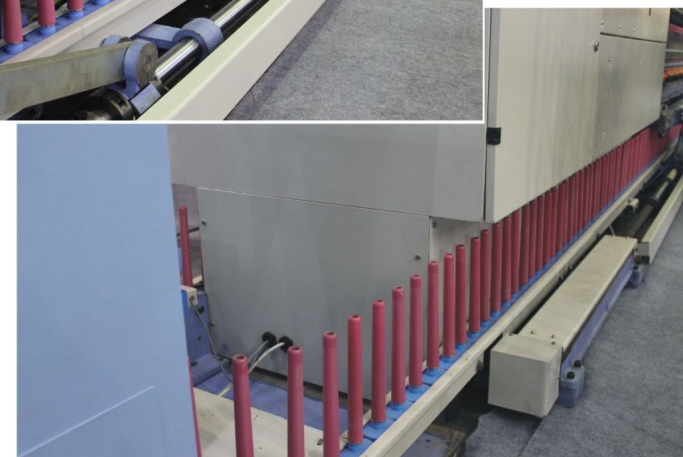
The spindle driving: The tape pulley is made from ABS material a tapered type looking for pulley, reduce the weight of pulley, reduce the power consumption and ,high precision and a excellent noise, it makes a smooth driving, high precision and a excellent performance at high speed.

The maximum spindle speed for spindle is up to 25,000rev/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 driving, the headstock also can be equipped with open auto-dripping lubrication and catching oil pan. Optimum design of variable cross section air channel, ensure lowest load on the headstock and tailstock even in high speed and improve suction effect.



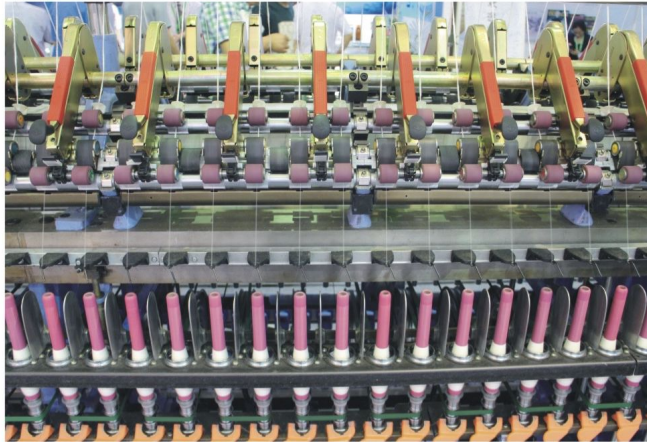
PRODUCTS INTRODUCTION

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 Auto-doffer 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 biston 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 spinning machines to winders can be obtained.

ADVANCED DESIGN, SIMPLE OPERATION AND BETTER YARN QUALITY



Front bottom rollers in driving unit, which are 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 the lifting of rails. Winding types can be adjusted by man-machine interaction and operation is simple and convenient.

The driving 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 end 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 (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	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