

Catalog for spinning line equipment

BLOW ROOM ---- FA002D Disk bale plucker

概述/Summary

A002D、CFA003是开清机组的第一道工序，适用于抓取各种等级的原棉以及76mm以下的纤维。

Type A002D and CFA003 are the first process in blowroom line, which are apply to pluck bales of various classes cotton, man-made fibre below 76cm.

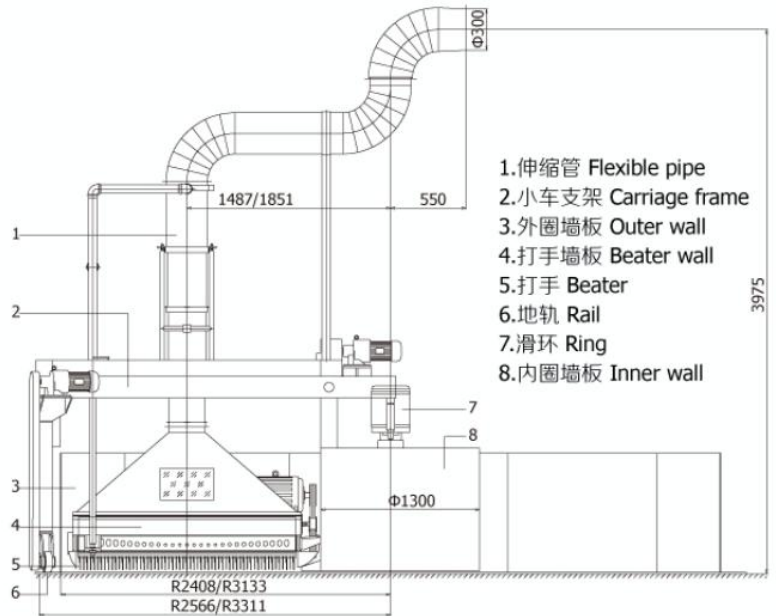


主要特点/Main Feature

A002D和CFA003均采用锯齿刀片打手，自里向外刀片由稀到密，A002D和CFA003分为三组，使抓取的纤维束更为小而均匀，有利于后道工序的混合、除杂。

A002D and CFA003 are both furnished with sawtooth disc rollers. From inside to outside discs of A002D and CFA003 are divided in three groups, groups from wide to close so that the cotton could be plucked uniformly in smaller tufts. It is favourable for next process to blend and clean.

平面图/Plane Diagram



主要技术参数/Main Technical Parameters

型号 Model	A002D	CFA003
产量 Output(kg/h)	800	1000
堆放棉包重量 Loading capacity(kg)	4000(2台并联)	3500
打手转速 Speed of beater(r/min)	720	720/871
小车回转速度 Speed of carriage(r/min)	1.66 2.39	1.16 1.667
刀片伸出肋条距离 Blade extension from grid(mm)	2.5~7.5	2.5~7.5
功率 Power(kW)	4.1	5.55
地轨直径 Dimeter of rail(mm)	5132	6622
总高度 Height(mm)	4125	4125
机器净重 Net weight(kg)	约(about)1600	约(about)2500

BLOW ROOM ---- FA107 Single roll cleaner

产品用途/Application

FA102型单轴流开棉机适用于各种等级原棉的处理，是一台高效的预清棉设备。进入本机的原料，经排除微尘后，在自由状态下经过多次均匀，密集、柔和的弹打，得到充分开松，在开松过程中将杂质与纤维分离，杂质经尘棒排除，开松除杂质后的纤维经输棉管道送入下道工序。

FA102 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 to next process.



主要技术参数/Main technical parameters

产量 Output(kg/h)	1000
工作宽度 Working Width(mm)	1600
角钉打手直径 Pinned beater diameter(mm)	Φ750
角钉打手 Pinned beater	皮带轮或变频调速 Control by pulley or inverter
装机总功率 Total power(kW)	8.05
外形尺寸(长×宽×高) Overall dimensions(L×W×H)(mm)	2140×1155×1960 若加管道高度为2541 Added tuft overall height 2541
机器净重 Net weight(kg)	约(about)1500

皮翼罗拉仅间隙吸落棉提供，连续吸落棉不提供。

Removeable roller is supplied when intermittent exhaust device is used and is not supplied when continuous exhaust device is used.

BLOW ROOM ----FA025 Multi-mixer with 6 chamber

产品用途 /Application

本机适用于棉、化纤及其混纺的混合。原料喂入本机后，在气流作用下，被均匀地吹入各个棉仓，形成气流混和；各仓纤维层经90°转弯输送，利用其路程差获得再次混和；过量纤维被抛入混棉室，达到细致混和。

FA025 FA025A & FA025-160 are used for blending cotton, chemical fiber or blends. After fiber is fed into Mult-mixer, airflow blows it into every hopper evenly to form a airflow blending. The fiber in every hopper is conveyed in a 90 turn by the different convey distance. And the excessive fiber is thrown into blending room to attain fine mixture.

主要特点 /Main Feature

- 1.带有PLC控制系统，与前后机台联锁，同步工作；
- 2.强化的三重混和作用，实现原料的均匀混和；
- 3.棉仓压力自动检测，自动控制抓棉机开停；
- 4.输送带与角钉帘均采用交流变频电机传动，运行速度无级可调；
- 5.灵敏的光电检测装置，实现全流程连续工作。

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



BLOW ROOM ---- FA106 FINE OPENER



主要特点/Main Feature

该机由上棉箱部件、给棉部件、打手部件、尘棒调节部件、机架部件组成。在清花工艺流程中与凝棉器配合使用，其打手在一定转速下通过离心力和尘棒的综合作用将尘杂分离出来，把经过充分开松除杂的原料送给下道工序，分离出来的尘杂进入滤尘系统。

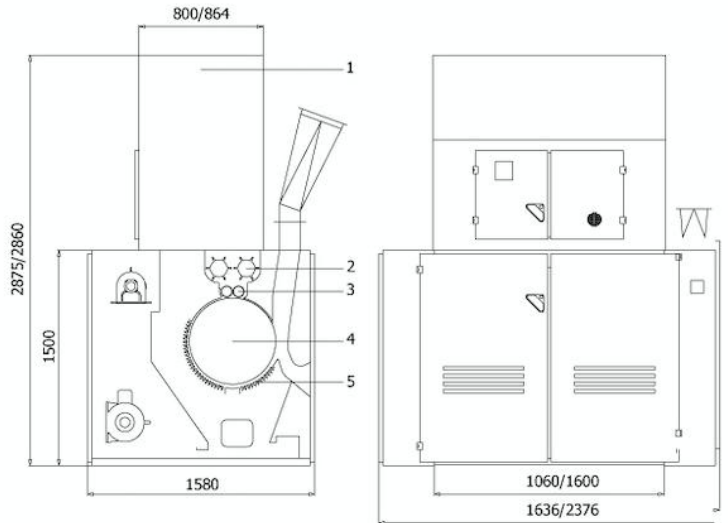
This machine is made up of top chute, feed unit, beater unit, grid bar adjusting unit, frame unit. It is used to gether with condenser in scutching process and its beater, running at certain speed, exclude trash through mutual function of centrifugal force and grid bar. Fully opened and cleaned material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

产品用途/Application

本机是开清棉设备之一，其作用是对经过初步开松的原棉及化纤作进一步的开松、分梳及除杂。

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

平面图/Plane diagram



- 1.上棉箱 Top chuter 2.上给棉罗拉 Top feed roller
3.下给棉罗拉 Bottom feed roller
4.打手 Beater 5.尘棒 Grid bar

主要技术参数/Main technical parameters

型号 Model	FA117A	F117	F117B	F117-160
产量 Output(kg/h)	800	600	600	600
适用原料 Suitable material	76mm以下的天然和人造纤维 Natural and man-made fibre in length less than 76mm			
工作宽度 Working Width(mm)	1060	1060	1060	1600
给棉罗拉转速 Feed roller speed(r/min)	35、44、52、63 可根据产量无级调速stepless speed adjusting according to output			
打手转速 beater speed(r/min)	480、535、600 可根据产量调整皮带轮直径(可选配变频) pulley diameter changeable according to output(option:inverter)			
功率 Power(kW)	3.55	3.55	3.55	5.1
外形尺寸(长×宽×高) Overall dimensions(L×W×H)(mm)	1636×1580×2875			2375×1580×2870

BLOW ROOM ----119-2001 Spark and metal dual separator

产品用途 / Application

本探除器用于棉纺清花工序,直接安装在输棉管道中,能有效地检测和排除纺织纤维中的金属杂质和火星,是确保生产安全的重要设备。

The separator is used for cotton cleaning process and is directly installed in a conveying duct, which can detect and remove effectively the metal impurities and spark in textile fibre. It is an importance equipment for ensuring safety in production.



BLOW ROOM ---- CFA030 Condenser



主要技术参数 / Main technical parameters

型号 Model	CFA030(Φ500)	CFA030(Φ700)
产量 Output(kg/h)	700~900	700~900
机幅 Machine width(mm)	1070	1070
尘笼直径Dia. of dust cage(mm)	500	700
功率 Power(kW)	3	4
外形尺寸(长×宽×高) Overall dimensions(L×W×H)(mm)	1434×1170×1611	1724×1170×1807.5
机器净重 Net weight(kg)	约(about)450	约(about)600

BLOW ROOM ---- CYH 001 Continuous feeding system

主要特点/Main Feature

CYH001型清梳联连续喂棉控制系统工作状况下，上棉箱压力波动控制在50Pa以内(以上数值是绝对值)，可满足清梳联连续喂棉、稳定供给的要求。

- 1.采用了集成度更高的IC芯片和先进的SMT表面元件贴装工艺及独特的电路屏蔽技术，使产品具有超强的抗干扰能力和可靠性，可在十分严酷的电磁干扰环境下长期稳定工作。
- 2.采用模块化通用电路结构，通过简便的模块组合，即可实现仪表的各种功能变换，通用性和灵活性显著增强。
- 3.仪表的外形美观大方，并有多种外形结构和尺寸。
- 4.整机及机芯装配均采用卡入式结构，使维护与装拆十分简便。



Under CYH001 type carding cotton continuous feed control system working conditions, cotton tank pressure fluctuation controlled within 50Pa (values are above absolute value), to meet the continuous feed carding cotton, stable supply requirements.

- 1.The use of highly integrated IC chip and advanced SMT surface mount technology components and a unique circuit shielding technology, so that products with superior anti-jamming capability and reliability, long under very harsh electromagnetic interference environment stability.
- 2.The modular general circuit configuration, the simple combination of modules, you can achieve a variety of functions significantly enhanced transformation, versatility and flexibility of the instrument.
- 3.The instrument of nice shape, and has a variety of shape and size structure.
- 4.Machine assembly and movement are used snap-in structure, so that maintenance and disassembly is very simple.

BLOW ROOM ---- Electrical control center



产品用途/Application

本电器控制中心为清花全流程设备一个集中电器控制站。

The electric control center offers a concentrated electric control station for the blowing equipment of whole production line.

主要特点/Main Feature

- 1.采用工业级人机界面控制系统，实现人机对话。
 - 2.显示器可直观地显示电机运行状态和传感器位置，并可在显示器上读出各机台的设计参数。
 - 3.采用变频器更改工艺参数十分方便。
 - 4.电器控制中心为清梳联全流程提供标准计算机接口，方便工厂实现计算机控制和数据处理。
 - 5.有单面独立柜，单面联合柜和双面联合柜供用户选择。
- 1.The control system of man-machine interface of industrial level is adopted for the centre to realize man-machine interaction.
 - 2.The running state of motors and the position of sensors can be visually displayed on the indicator, and the design parameters of each machine can be read out on the indicator.
 - 3.The use of frequency converters is very convenient to change technical parameters.
 - 4.A standard computer interface port is supplied by the centre, which is convenient for textile mills to perform computer control and data handling.
 - 5.Optional the one-sided alone cabinet, the one-sided union cabinet and the two-sided union cabinet.

CFA1203H Carding machine**主要技术参数/Main Technical Parameters**

适用范围 Applications	本机适用于纤维长度22~76mm的 纯棉、化纤及其混纺 This machine is used for processing cotton chemical fibres and blends in length 22~76mm	回转盖板根数(工作盖板/盖板总数) No. of revolving flats(Working/total)	32/86
产量 Output(kg/h)	最高(Max.) 80	附加梳理部件 Attached carding segments	后固定盖板4根(纺棉)4~6根(纺化纤) 刺辊分梳板2根 4 Rear stationary flats (cotton), 4~6(chemical fiber); 2 licker-in carding segment
出条速度 Delivery speed(m/min)	最高(Max.) 220	棉网清洁器 Web cleaner	前固定盖板4根(纺棉)4~6根(纺化纤) 4 Front stationary flats (cotton), 4~6(chemical fiber)
棉条定量 Silver count(g/m)	3.5~6.5	适用棉条筒 Can size(mm)	前棉网清洁器1个 后棉网清洁器1个 Front web cleaner(1) Rear web cleaner(1)
喂棉重量 Feed weight(g/m)	300~1000		直径(diameter)600或(or)1000
工作幅宽 Working Width(mm)	1000		高度(height)1100,1200
总牵伸倍数 Total draft	60~300	连续吸尘 Continuous suction	吸风量(air volume)3500米 ³ /小时(m ³ /h)
锡林工作直径 Cylinder diameter(mm)	1288	出口静压 Air pressure	-850~-920帕(Pa)
锡林转速 Cylinder speed(r/min)	340~467	压缩空气 Compressed air requirement	压力(pressure)5~7公斤/厘米 ² (kg/cm ²)
道夫工作直径 Doffer diameter(mm)	706	空气消耗 Compressed air consumed	0.02米 ³ /小时(m ³ /h)
道夫转速 Doffer speed(r/min)	8~60	装机总功率 Total installed power(kW)	8.99
刺辊工作直径 Licker-in diameter(mm)	250	安全罩型式 Safety cover form	全封闭 Totally-enclosed structure
刺辊转速 Licker-in speed(r/min)	749,825,933,1015(Φ224) 693,763,863,940(Φ242) 640,705,797,686(Φ262)	占地面积(长×宽) Space requirement(L×W)(mm)	3857×1980 不含圈条器(coiler no included)
		机器净重 Net weight(kg)	约(about)7500
回转盖板速度 Flat speed(mm/min)	81~334	喂入形式 Feed method	棉箱或单棉卷喂入 Feed by chute or single lap

FA387 Breaker draw frame



技术规格

眼数：2眼

最大输出速度：800m/min

总牵伸倍数：可调

牵伸形式：五上四下加压力棒牵伸或四上三下加压力棒牵伸

适纺纤维长度：15-76mm

喂入条筒尺寸：直径：Φ400、Φ500、Φ600、Φ1000

高度：900、1100、1200mm

输出条筒尺寸：直径：Φ400、Φ500、Φ600

高度：900、1100、1200mm

主机外形尺寸：2240x1000x2110mm

机器重量：2400KG

功率：主电机：4KW, 风机：1.5KW, 伺服电机：3KW

TECHNICAL SPECIFICATIONS

Delivery number : 2 holes

Max output speed : 800m/min

Total drafting times : adjustable

Drafting style : Five over four with pressure bar

Suitable fiber length : 15-76mm

Feeding can size : Optional

Ouput can size : Dia : Φ400、Φ500、Φ600

Height : 900、1100、1200mm

Mainframe size : 2240x1000x2110mm

Machine weight : 2400KG

Power Motor : 4KW, Fan motor : 1.5KW, Servo motor : 3KW

FA360B Lab Former**FA360B 条并卷机主要技术参数 MAIN TECHNICAL DATA OF FA360B**

棉条并合根数	18—28	No. of feed slivers
牵伸头数	2	No. of drafting heads
喂入棉条定量	20-28g/5m	Weight of feed sliver
棉卷定量	60-80g/m	Batt weight
适纺纤维长度	棉型纤维 Cotton	Suitable Length
棉卷最大直径	650 mm	Max. lap diameter
棉卷宽度	300 mm	Lap width
满卷重量	约25kg	Max. lap weight
成卷速度	80-135	Speed
台最大产量	500kg/h	Max.yield
牵伸机构	三上三下牵伸 3 over 3	Drafting type
牵伸倍数	总牵伸1. 31-3. 10、主牵伸1. 27-2. 42	Drafting times
加压形式	气动加压 Pneumatic weighting	Pneumatic
牵伸隔距	42-48mm (HV) 、45-51mm (VV)	Draft zone distance
输入条桶	直径600mm或1000mm	Candiameter
装机功率	11KW	Motor power
压缩空气	0. 7-0. 8MPa、耗气量2. 2-3. 3Nm ³ /h	Compressed air
吸风系统	中央集体吸风或分离机独立吸风 The central collective suction or standalone suction	Exhaust air
吸风量	2200m ³ /h	Amount of exhaust air

FA588 Combing Machine



FA588主要技术参数

MAIN TECHNICAL DATA OF FA588

眼数	8	No. of combing heads
眼距	470 mm	Gauge
喂入棉卷宽度	300 mm	Feed lap width
喂入棉卷最大直径	650 mm	Feed lap max.. Diameter
棉卷定量	60 -80 g /m	Feed lap weight
适用棉纤长度	24-48mm	Suitable cotton fiber length
落棉率	8 - 25%	Waste percentage
给棉形式	前进给棉, 后退给棉 Forward feed, backward feed	Feeding mode
给棉长度	4.3, 4.7, 5.2, 5.9 mm	Feed length
锡林	90°	Cylinder Type
理论速度 (钳次)	500 nips / min	Theoretical speed
有效输出长度	26.68 mm	Output length
牵伸形式	三上三下压力棒牵伸, 气动加压 3-over-3 pressure bar drafting with pneumatic weighting	Drafting system Type
后区牵伸	1.13-2.0	Back zone draft
总牵伸倍数	Total draft: 9.12-25.12	Drafting times
牵伸距离	主牵伸 Main drafting 41 - 60mm	Drafting distance
圈条形式	单筒单圈条成形 single can, single coiling	Coiling mechanism
条筒尺寸	Φ 600mm × H 1200mm	Specification of can
输出精梳条定量	3 - 6 g /m	Delivered combed sliver weight
理论产量	可达78 kg / hour	Theoretical output
吸落棉形式	以中央吸落棉, 集体吸落棉为主 Central integral suction mainly	Suction system
压缩空气压力	0.6 - 0.8 mpa	Compressed air Pressure
耗气量	0.5 m ³ per hour	Compressed air consumption
主电机 (变频)	5.5 kw	Main motor (Inverter)
毛刷电机	1.1 kw	Brush motor
全机重量	5.25T	Weight
外形尺寸	7167 × 2042 × 1700 (L × W × H)	Dimension

FA 318A Draw frame with auto level



技术规格

眼数: 2眼
 最大输出速度: 800m/min
 总牵伸倍数: 4-14倍
 牵伸形式: 五上四下加压力棒牵伸
 喂入条子根数: 6-8根
 适纺纤维长度: 15-76mm
 喂入条筒尺寸: $\phi 400$ 、 $\phi 500$ 、 $\phi 600$ 、 $\phi 800$ 、 $\phi 900$ 、 $\phi 1000 \times$ 高900或1100 (1200) mm
 输出条筒尺寸: $\phi 350$ 、 $\phi 400$ 、 $\phi 450$ 、 $\phi 500$ 、 $\phi 600 \times$ 高900mm或1100mm
 主机外形尺寸: 2490 \times 1000 \times 2110mm
 机器重量: 3000KG
 主电机功率: 5.5kw

TECHNICAL SPECIFICATIONS

Delivery number: 2 holes
 Max output speed: 800m/min
 Total drafting multiple: 4-14 times
 Drafting style: five upper and four lower pressure bar dual zone curve drafting
 Feeding sliver number: 6-8 pieces
 Suitable fiber length: 15-76mm
 Feeding tube size(mm): $\phi 400$ 、 $\phi 500$ 、 $\phi 600$ 、 $\phi 800$ 、 $\phi 900$ 、 $\phi 1000 \times$ height 900 or 1100 (1200) mm
 Tube size of output(mm): $\phi 350$ 、 $\phi 400$ 、 $\phi 450$ 、 $\phi 500$ 、 $\phi 600 \times$ height 900 or 1100mm
 Mainframe exterior size(mm): 2490 \times 1000 \times 2110mm
 Weight: 3000kg
 Main motor power: 5.5kw

主要性能

每分钟800米的设计输出速度，光、电、机、气一体化产品。
 瑞士USTER短片段自调匀整控制系统。
 采用在线检测，监控条干质量。
 触摸屏显示操作，实现人机对话。
 采用变频调速，减少皮带轮变换，解决开关车时瞬间条干恶化。
 采用PLC控制，数字式机前、高架光电控制使设备运行更加稳定可靠。
 用户可选用强制稀油润滑系统，减少齿轮磨损利于高速运转。
 自动刮棉装置，实现定时清洁。
 采用自动换筒装置，提高生产效率。
 多处采用间隙密封，适合高速。

MAIN FEATURES

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

FA471 Simplex Machine - 132 spindles



参数名称			
锭距(mm) Spindle gauge	220	卷绕输入动力轴 Winding power shaft	万向轴 Universal shaft
锭数 Spindel number	96, 108, 120, 132, 144	差速机构 Differential device	无 None
卷装尺寸(mm) Package dimension	Φ 150 × 400	换向机构 Reversing device	软件蜗轮减速箱 Software
筒管尺寸(mm) Bobbin dimension	Φ 45 × 445	成纱角度调节 Yarn forming angle	软件控制, 任意可调 Software
牵伸形式 Drafting system	四(三)罗拉双短皮圈牵伸 4(3)-roller Double apron drafting system	落纱三自动 Three auto doffing	软件 Software
牵伸倍数 Drafting multiple	4.2-12	信号显示 Signal display	车头五灯界面显示 Five Lamps Indicated On Machine Headstock
捻度范围(捻/米) Twist range(T/M)	无级可调 Continuously adjustable	张力调节 Tension adjustment	软件 Software
适纺线密度(Tex) Density for yarn	220-1250	张力微调 Tension fine adjustment	软件 Software
加压形式 Pressing form	弹簧摇架加压 Spring Weighting arm pressing	防细节 Unevenness preventing	软件 Software
下罗拉直径(mm) Bottom roller diameter	Φ 28.5, Φ 28.5, Φ 28.5, Φ 28.5	防冒纱 Sliver faults preventing	软件 Software
皮辊直径(mm) Top roller diameter	Φ 28, Φ 28, Φ 25, Φ 28	卷绕密度调节 Winding density adjustment	软件 Software
清结方式 Cleaning device	绒辊清洁加巡回式吸吹风装置 Napping roller with revolving suction device	捻度变换 Twist changing	软件 Software
最高转速(转/分) Max Mechanical speed(R/M)	1400	喂入条筒直径(mm) Can diameter	Φ 400/Φ 500/Φ 600
传动形式 Transmission device	四变频/伺服电机传动 Four frequency inverter/servo motor	电机功率(kw) Main motor power	卷绕电机11/7.5 锭翼电机5.5/4 牵伸电机4 升降电机0.75 winding motor 11/7.5 flyer motor 5.5/4 drafting motor 4 lifting motor 0.75
控制方式 Control type	电脑自动控制 Computerized Automatic control	噪声[db(A)] Noise standard	<85
人机对话 Man-machine interaction	触摸屏 Touch screen	外形尺寸(mm) (108锭) Overall dimension(108 spindles)	13610 × 3560/(4310) × 2600mm
卷绕传动方式 Winding transmission	齿轮传动 Gear transmission	外形尺寸(mm) (120锭) Overall dimension(120 spindles)	14960 × 3560/(4310) × 2600mm
锭翼传动方式 Flyer transmission	齿轮传动 Gear transmission	外形尺寸(mm) (132锭) Overall dimension(132 spindles)	16250 × 3560/(4310) × 2600mm

FA 538 Ring spinning machine with auto doffer



- 1, Model No.: FA538 with auto doffer and compact attachment
- 2, Spindle speed: 15000-25000rpm
- 3, Spindle : High speed spindles which guarantee spindle speed
- 4, Ring cup dia: 38, 40,42,48mm (直径越小, 纱支越高, 根据实际)
- 5, Spindle gauge: 70mm (锭距,cotton)
- 6, Lift: 180mm (7" inch); weight balance. **Lifting type: electric cam system**
- 7, Draft ratio: total draft 10-50 fold
- 8, Direction of twist: Z or S all available
- 9, Drive: single tension pulley drive for spindle; flat belt for main motor.
- 10, Yarn count: 4.86-97.2 Tex (6-120Ne); combine processing gears depending on the practical yarn count.
- 11, Twist: 230-1740 twist /m
Break Draft Range: 1.25-1.50
- 12, Nature of yarn: 100% cotton, chemical fiber or their blend.
- 13, Fiber length: short fiber below 40mm, medium fiber between 40-51mm, long fiber between 51-65mm.
- 14, Doffing: auto doffer
Drafting Systems: Changde YJII-142C Made in china
The Hardness of Cots: 63 Degree for front & 74 degree for back, One set of tools with bag etc.
- 15, Draft mode: 3-line rollers, double aprons (long and short), pendulum arm weighting
 - (1) Top cradle : made in China.
 - (2) Bottom cradle: made in China
 - (3) Leather roller: wuxi No.2 Rubber Co., best in china
 - (4) Top and bottom aprons: wuxi No.2 Rubber Co., best in china
 - (5) Spacer: made in China.
- 16, Creel: 6 rows bobbin hanger, Stationary bobbin hanger. (168 pcs)

- 17, Spindle: 19mm, Bare type is standard, and Plug type is optional (锭盘直径越小, 锭数越高)
- 18, Pulley: bevel hole pulley, made in Shandong tongda group (济南天齐)
- 19, Spindle tape: TIANQI made in china, heat joining type.
- 20, Ring: Hangyue brand Made in china.
- 21, Separator: aluminum alloy.
- 22, Over Head Travelling Cleaner : 1 M/c : 1 Over Head Cleaner.
- 23, Ring bobbin 5 pics for each spindle, best brand in china made by TONGDA
- 24, Clearing device: suction flute, 6spindles/pcs; top flocked clearer roller: white or green, 2spindles/pcs, bottom flocked clearer roller: white or green, 6spindles/pcs.
- 25, Air exhausted system: the main motor with under ground air exhausted, suction motor for single frame;
- 26, Electric control: PLC+ display screen (Chinese and English language display).
PLC brand: Panasonic
- 27 Bobbin Hanger: DD2, China.
- 28 Roving Package: Max 152mmX406mm
- 29 With Automatic Device for Rail Resetting
- 30 Drive: single Tension Jockey Pulley System
- 31 Bottom Roller Diameter: 27X27X27mm**
- 32 Neck Bearing with Front Bottom Rollers: Made in China
- 33 Neck Bearing with Middle & Rear Rollers: Made in China
- 34 Suction System: Pneumatic flute type individual suction fan for each frame
- 35 Separator: Aluminum Alloys
- 36 Snail Wire: "P" type
- 37 Main Drive Gears: in oil bath
- 38 Balloon Control Rings: included
- 39 Bearings for Main Shaft and in Head Stock: NSK Japan
- 40 Digital Display& Microprocessor: E-View and Siemens
- 41 Flocked Clearer Rollers for Top (front) and bottom (back) rollers
- 42 main motor: SIEMENS BRAND FROM GERMANY
- 43 Voltage of Electric Supply: Three phase AC 400Vol +/-10%, 50 Hz
- 44 Ring Rail Motor: 0.55 KW
- 45 Suction Motor: 5.5 KW
- 46 Standard Spare Parts: Included
- 47 Plastic Bobbin: 5pcs/Spindle, PC heat set material, the color of Bobbins is red, yellow in equal ratio.
- 48 Erection tools: with
- 49 Power: 3 phase 4 lines; alternative current motor volt 380V±10% with frequency 50Hz

spindles motor	384-420	432-456	468-492	504-516	864	1008
Two speed main motor	15/7KW	17/9KW	18.5/11KW	22/11KW	37kw	45KW
Suction motor	2.2KW	2.2KW	2.2KW	2.2KW	5.5kw	7.5KW
Lifting motor	0.37KW	0.37KW	0.37KW	0.37KW	0.55kw	0.55KW

- 50, Machine color: light Green same as rieter machine color
- 51, Dimension and weight:

- 52, Technical manual: 3 sets of technical manual in Chinese and English.
- 53, Erection tools: according to the quantity of the machine
- 54, Spare parts: for erection.
- 55, Packing: by seaworthy wood case of moisture proof, rust proof and pendulum proof.
- 57. Inverter: RHYMEBUS—RM6G TAIWAN
- 58. Electric control brand: Simens From Germany

Auto Winding Machine : VCRO —60 spindles



VCRO 系列自动络筒机，提升纱线质量的保证

VCRO SERIES AUTOMATIC WINDER
Guarantee of Yarn Quality Improvement

SMART ROBOT NEW
智能 自动 全新



VCRO 自动络筒机继承SMARO-NEW自动络筒机的优点，全新的外观设计，美观大方；采用全新的电气控制系统智能防叠方式、新型张力控制系统和新型气圈控制机构，筒纱成形更臻完美，卷绕张力更为均匀，机器运行稳定性、可靠性等方面显著提高，可更好的满足客户需求。

VCRO automatic winder inherits the advantages of SMARO-NEW series winder, adopts bran-new profile design - featured by beautiful and dignified, adopts the bran-new smart anti-patterning device, new type of tension control system and new type of balloon control mechanism to ensure perfect package building, more even winding tension, high machine operation stability and reliability to meet customer requirement better.

更好 BETTER

- ★ 新型防叠方式
- ★ 新型封闭式槽筒护纱板
- ★ 单锭分类报警
- ★ 电子式防缠槽筒
- ★ 槽筒自由选释
- ★ New type of anti-patterning mechanism
- ★ New type of the enclosed drum cover
- ★ New type of soft tension mechanism
- ★ Electronic anti-wrap drum
- ★ Drum optional freely

更快 FASTER

- ★ 张力闭环控制系统
- ★ 管纱吸嘴控制优化
- ★ 筒纱吸头程序优化
- ★ 梳齿结构优化
- ★ 单锭面板安装方式改进
- ★ Tension close loop control system.
- ★ Optimized bobbin yarn suction nozzle.
- ★ Optimized package yarn suction program.
- ★ Optimized gill pin structure
- ★ Improved spindle panel installation method

更可靠 MORE RELIABLE

- ★ 新型柔性张力结构
- ★ 栅式张力结构
- ★ 张力捕纱器结构优化
- ★ 空管输送机构优化
- ★ 增配空管分拣箱
- ★ 风门结构优化设计
- ★ 回丝箱视窗透明设计
- ★ 转动风机结构优化
- ★ New type of soft tension structure.
- ★ New type of gill tension mechanism.
- ★ New type of grid tension structure
- ★ Optimized tension yarn-catcher structure
- ★ Optimized empty bobbin conveyor
- ★ Increased empty bobbin selection box
- ★ Optimized air door structure.
- ★ Transparent lint box window.
- ★ Optimized mobile fan structure.

均匀一致的纱线张力，良好的筒纱成形 Uniform and consistent yarn tension, excellent building of yarn package

新型防叠方式，采用平衡压力比例调节，更有效防止条带纱的产生，优化筒纱成形质量。根据纱线品种不同，可有多种槽筒选择，满足对成形和筒纱容量的要求。

New type of electronic anti-patterning system, adopting balance pressure regulating in ratio, functions during the whole winding process to eliminate the formation of critical patterned yarn. Multi-type of drums optional for different yarns meet the requirement of package building and capacity.



新型封闭式槽筒护纱板，可有效防止筒纱纱尾甩头、大幅减少小端缠纱，避免筒纱小端攀头等成形质量问题，提高一次吸头成功率。电子式防缠槽筒，可避免缠槽筒和腰带纱产生，优化成形质量，并减少原料浪费。

New type of closed drum cover can efficiently prevent package yarn tail from throwing off, greatly reduce yarn wrap on small bobbin side, prevent bobbin building problem, enhance one-time head suction successful rate. Electronic anti-wrap drum can prevent yarn wrap on drum and stepped winding yarn, optimize package building and reduce material waste.



新增张力闭环控制系统，保证均匀络筒张力，可提高卷绕速度 10-20%，提高生产效率 2-5%。

Newly increased tension close-loop control ensures even doffing tension, enhance winding speed 10-20% and production efficiency 2-5%.



新型柔性张力结构，稳定纱线张力，保证筒纱成形质量。

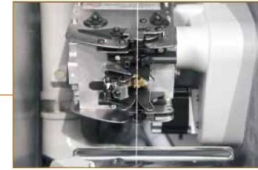
New type of soft tension structure can stabilize yarn tension and enhance production efficiency.



全面结构优化，提高生产效率 Optimized system structure to enhance production efficiency



采用直流无刷电机同轴驱动槽筒，与传统的皮带传动相比，由于消除了皮带摩擦和滑动所造成的功率损失，因而降低了电力消耗，提高了生产效率。Comparing with traditional belt drive, DC brushless motor coaxial drive winding drum could reduce the electricity consumption and improve the productivity due to the elimination of the power loss caused by belt friction and slipping.



筒纱吸头程序优化，有效提高一次吸头成功率，可提高生产效率 1-2%，并提高了机器运行的可靠性。Package yarn head suction program is optimized, which efficiently prevent the problems such as yarn choking on package yarn suction nozzle, enhance production efficiency 1-2% and enhance machine operation reliability.



梳齿在筒纱吸嘴内的位置后移，增加纱线导向面，提高吸纱成功率。Position of gill pin inside package suction nozzle is moved backwards to increase yarn direction plane and enhance yarn suction successful rate.



管纱吸嘴控制优化，筒纱吸嘴双零位可控，提高吸纱成功率，减少单锭吐管几率，从而提升生产效率。Bobbin suction nozzle control is optimized, the aero position of bobbin suction nozzle is controllable and twisting program is monitored, which can reduce the rate of ejecting bobbin by spindle and enhance production efficiency.

全新机械设计，减少维护工作量

Latest designed mechanical structure to reduce maintenance labor strength

1、新型柔性张力结构，减少了张力盘清洁工作量、清洁周期和缠回丝率。

New type of soft tension structure reduces cleaning load, cleaning cycle and lints winding rate on tension disk.



2、张力捕纱器结构优化设计，优化为圆口，减少堵纱几率，减少清洁工作量。

Optimum tension yarn catcher is designed with blowing nozzle for reducing yarn choking rate and cleaning load.



3、空管输送机优化，单根皮带输送，彻底避免卡管，减少皮带损坏。

Empty bobbin conveying mechanism is optimized. Due to empty bobbin transmission by single belt, bobbin choke is prevented completely and belt damage is reduced.



4、增配空管分排箱，方便挡车工操作。

The increased empty bobbin selection box is convenient for operator.



5、单锭面板安装方式改进，清纱器探头的拆装不再需要单独侧罩板拆下，提高了维修速度，减少了维修工作量。

The single spindle installation method is improved. When mount and dismantle the feeler of yarn clearer, it is not necessary to dismantle the side plate of spindle so that increase maintenance speed and reduce maintenance load.



6、回丝箱视窗透明设计，方便观察回丝量，保证及时有效清洁，提高风机工作效率。

Newly designed transparent window for lint box is convenient to observe lints amount to ensure efficient clean and increasing fan working efficiency.



7、游动风机结构优化，保证高效、全面的清洁，不留任何死角。

The optimized mobile fan structure ensures efficient and whole clean without any dead angle.



高规格配置，全面控制纱线质量

Top level electronic yarn clearer, whole process control of yarn quality



USTER QUANTUM3 Q/DATA

电子清纱器，对纱线质量进行全程控制，包括对接头质量的控制，对于正常卷绕段和接头处采用两种不同清纱设置，可配置目前世界最先进的各种型号电子清纱器。

- ★ USTER QUANTUM 3 Q/DATA
- ★ LOEPFE ZENIT+

Electronic clearer controls yarn quality, including yarn joint quality, during the whole winding process. Two different yarn clearer settings are adopted for normal yarn winding and joint respectively. The most advanced electronic yarn models can be equipped. Foreign fiber detecting function can be chose as optional.

- ★ USTER QUANTUM3 Q/DATA
- ★ LOEPFE ZENIT+



LOEPFE ZENIT+

捻接装置采用模块化设计，拆装维修方便，可根据您的不同需求在几种模式中互换。捻接器主要形式有：

Splicing system adopts modular-design for easy installation and maintenance. Different types of splicers can be interchanged according to different customer requirement. The main types of splicers include:

798Q型空气捻接器

798Q JOINTAIR

通过更换不同型号的捻接腔和压盖，可适用棉、毛、化纤及其混纺的捻接。

Different chambers and covers can be adapted to suit the specific requirements of the material to be spliced, such as cotton, wool, manmade staple fiber and their blends.

水雾捻接器

AQUASPLICER

使用空气和水的捻接器，主要用于竹节纱、包芯纱、紧密纺等各种纤维的捻接。

Aquasplicer is mainly suitable for the splicing of slub yarn, core spun yarn and compact ring spun yarn.

选用配置

OPTIONAL FIT

- ★ 纱库形式：9孔或6孔，9孔纱库可有效缓解操作工人的劳动强度。
- ★ 异纤检测装置
- ★ 筒纱输送装置
- ★ 上蜡装置
- ★ 落筒小车
- ★ 理管机
- ★ 后弯弓
- ★ 栅式张力
- ★ 落筒小车
- ★ Magazine type: 9 holes or 6 holes, 9-hole magazine can efficiently reduce labor strength.
- ★ Foreign fiber detector
- ★ Package conveyor
- ★ Waxing unit
- ★ Doffing carriage
- ★ Auto-sorter
- ★ Behind bow style
- ★ Grid tension
- ★ Doffing carriage

主要技术规格

MAIN TECHNICAL SPECIFICATION

型式	单锭式，单面排列，左、右手车
适用范围	Nm3.5至最高支数的棉、毛、化纤和混纺的单纱
卷绕速度	400 - 2200 米 / 分，无级调速
卷绕头数	6 - 80锭，每隔 2 锭间隔速增
锭距	320mm
适用筒管锥度	4°20'，5°57'
喂入管纱规格	Φ=32 - 65mm，L=180 - 300mm
接头型式	空气捻接器、水雾捻接器
纱库型式	9孔或6孔
清纱型式	USTER/LOEPFE 最新电子清纱器
槽筒	采用直流无刷电机同轴驱动槽筒，无级调速
槽筒圈数	2圈或2.5圈
离子防叠	通过全程控制电机变速实现
接头循环	电器逻辑控制，智能循环
张力控制	电磁加压
装机功率	33.57 Kw(实际功率 11 - 15kw)
外形尺寸 (60 锭)	22627x1365x2650mm
TYPE	Single-spindles, single-sided arrangement, left or right hand.
APPLICATION	Nm3.5 to the highest count cotton, wool, synthetic yarn and blended single yarn.
WINDING SPEED	400-2200m/min, step-less speed regulation
NUMBER OF WINDING SPINDLES	6 to 80 every two spacing increment.
SPINDLE DISTANCE	320mm
APPLICABLE BOBBIN TAPER	4°20', 5°57'
FEEDING BOBBIN	Diameter=32-65mm, length=180-300mm.
JOINT TYPE	Airsplicer, aquasplicer
MAGAZINE TYPE	9 holes or 6 holes
JOINT TYPE	The latest USTER/ LOEPFE electronic yarn clearer.
DRUM	DC motor coaxial transmission, step-less speed regulation
CIRCLES ON DRUM	2 or 2.5
ANTI-PATTERING	Motor speed variation controlled in whole process.
JOINTS CIRCLE	Electrical logic control, intelligent cycle.
TENSION CONTROL	Electromagnetic pressure.
POWER INSTALLED	33.57kW (actual consumption 11-15kw)
OVER-ALL DIMENSION (#0 SPINDLES)	22627 X1365X2650mm