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To keep up with advanced technology, we reserve the right to change the specification without notice.

High-end Equipment Taitan Textile machinery

高端装备 泰坦纺机

TQF-K80 转杯纺纱机

TQF-K80 Rotor Spinning Machine

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显著特征 K80

Visible Feature

双电器箱设计
The design of the double electrical box

变频器安装在独立箱体内，冷却效果佳，设计了独特的冷却风道，保证了电器的散热效果，提高了电器的使用稳定性。

The frequency inverters are installed in a separate box, the cooling effect is good, and the unique cooling air path is designed to ensure the heat dissipation effect of the electric parts and improve the stability of the use of the electric parts.

最大产能
Maximum production capacity

整台机器最多 620 个纺纱单元均可实现最高引纱速度 200 米 / 分。

Max. 620 spinning units for the entire machine can achieve max. delivery speed of 200 m/min.

独立的机器两侧
Separate spinning yarn on both sides of the machine

一台机器可以生产两个品种，可以实现机器的灵活性，维护操作的方便性。

One machine can produce two kinds of yarns, which realizes the flexibility of machine and the convenience of maintenance and operation.

排杂
Exhaust impurities

采用一头一尾双排杂设计，排杂负压均衡更稳定，降低能耗。

It adopts double exhaust impurities design at headstock and tail of machine, which makes the negative pressure more stable and reduces energy consumption.

电子清纱器
Electronic yarn clearer

可选用国产和进口电子清纱器 .，清纱器安装方便。

Domestic or international electronic yarn clearers are selected. The yarn clearer is easy to install.

风管和风箱设计
Air duct and bellows design

所有风管采用圆形降低了流量损失，降低了能耗。独特的风箱设计，使阻力更小，清洁掏杂更方便，减少掏杂次数。

The circular shape of all sir ducts reduces flow losses and nergy consumption. The unique bellows design makes the resistance smaller, more convenient to clean and reduces the cleaning times.

大触摸屏
Big touch screen

界面友好，操作快捷，简便易懂。

Friendly interface, fast operation and easy to understand.

成熟可靠的纺纱箱
Mature and reliable spinning box

纺纱稳定，优异的纺纱质量，适纺性广，断头少，机器效率更高。

stable spinning, excellent spinning quality, wide spinning range and less breakage, high production efficiency.

完美的机器高度
The perfect machine height

可以用最高 1200mm 的条筒，减轻了挡车工的劳动强度 。

Can be used with sliver cans of up to 1200mm, which reduces the labor of the operator.

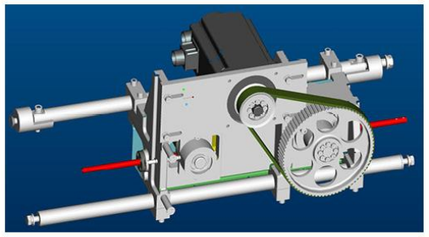
半自动接头
Semi-automatic piecing

采用步进电机单独喂棉，结合专业的电脑软件参数设计，实现接头分段控制。提高了接头质量和成功率。配备气圈补偿器，接头时，负压气圈补偿器会立刻储存引纱罗拉带来的盈余纱线。这能确保后道加工中的高质量卷装和更好的退绕。即使在最高速度时进行接头，也能确保完美的卷装质量。采用气动自动抬臂装置，断头自动抬起，简单可靠气管布置简单维护方便。接头操作智能控制，档车工整备好合适的纱头并将它放入引纱管，合上纺纱箱后接头自动完成。具有回退、变速喂棉、毫秒级时间控制，接头质量好，操作简单，保证了稳定的接头成功率和接头质量。

Feed separately by step-motor, combined with professional computer software parameter design, independent segmentation control, improving the piecing quality and success rate.The negative pressure balloon compensator immediately stores the surplus yarn from the threading roller to ensure high quality packages and better unwinding in next process. Even when the piecing is made at the highest speed, the perfect package quality is ensured.The pneumatic automatic lifting arm device: automatically lift after end-breakage, it is simple and reliable.The air pipe arrangement is simple and easy to maintain.The piecing operation is intelligently controlled, and the operator prepares the yarn end and puts it into the yarn drawing tube, close the spinning box and the piecing operation is automatically finished. With backspace, variable feeding, millisecond control, good piecing quality, simple operation, ensuring stable piecing success rate and quality.

横动机构及纺纱成形
Traverse mechanism and spinning forming

采用目前国际上领先的电子横动机构， 在工艺范围内通过电脑显示屏可以任意调节卷绕角度，横动差微周期和周期变化幅度，有效减少或消除筒纱的菊花芯。保证筒纱后序的正常退绕；电子横动机构采用左右两面单独控制，可以实现左右两面单独纺纱。筒子架采用液压阻尼。保证了纱线成形和后续退绕，最大卷装直径能达 320mm，重达 4.5 公斤。每根引纱和卷绕轴采用各自电机传动，结构简单，纺纱张力调节方便。



Adopting the current international leading electronic traverse mechanism, The winding angle, the traversing difference period and the period change range can be adjusted freely through the display within the scope of the process to effectively reduce or eliminate the chrysanthemum core of the yarn package and ensure the normal unwinding of the package in next process. The electronic traverse mechanism is separately controlled at the left and right sides, so the yarns can be separately spun at both sides of machine. The cradle is with hydraulically damped device which ensures yarn forming and next unwinding, the maximum package diameter can reach 320mm, the weight of package is up to 4.5 kg Each of the threading and winding shafts is driven by a separate motor, which has a simple structure and convenient adjustment of the spinning tension.

主要规格参数 Main Technical Specifications

参数名称		单位	参数值					
转杯直径		mm	66	54	43	36	34	32
转杯速度		r/min	2.5-4.0	4.0-6.0	5.5-7.5	7.0-9.0	7.5-10.5	9.5-12
纤维长度		mm	15-60	15-40				
每节中的纺纱器数量		头	20					
机器上纺纱器数量		头	40……240、260、280、300、320、340、360、380、400、420、440、460、480、500、520……620					
纺纱器隔距		mm	230					
纱线支数			40-2.4Ne、67-4Nm、15-250Tex					
条子支数	棉		0.20-0.083Ne、0.33-0.14Nm、3-7Ktex					
	人造纤维		0.24-0.12Ne、0.4-0.20Nm、2.5-5Ktex					
分梳辊速度		r/min	5000 至 10000 无级变速					
最大喂给速度		m/min	7					
最大机械输出速度		m/min	平行筒子≤ 200；　锥形筒子≤ 150					
牵伸范围			11-350					
最大筒子尺寸		mm	平行筒子：φ320×150；　锥形筒子：φ285×150					
最大筒子重量		kg	平行筒子：4.2；　锥形筒子：3.8					
筒子形状			平行筒子；　锥形筒子					
圆柱形纸管尺寸		mm	φ54×170					
锥形纸管尺寸		mm	4° 20′ ：φ33/φ59×170；　卷边：φ28/φ59×170 2°：卷边：φ43/φ65×170					
筒子密度范围		g/cm3	0.32-0.42					
条筒最大直径		mm	500 (20 寸)					
条筒最大高度		mm	1200					
转杯和分梳辊的传动		型	切向扁平龙带传动					
电源	电压	V	380					
	频率	Hz	50					
	总输入功率	kVA	74、88、112、127、155、193					

Parameter names		Unit	Parameter values					
Rotor diameter		mm	66	54	43	36	34	32
Rotor speed (×10000)		r/min	2.5-4.0	4.0-6.0	5.5-7.5	7.0-9.0	7.5-10.5	9.5-12
Fiber length		mm	15-60	15-40				
Quantity of spinning units per section			20					
Quantity of spinning units per machine			40……240, 260, 280, 300, 320, 340, 360, 380、400, 420, 440, 460, 480, 500, 520……620					
Spindle pitch		mm	230					
Yarn count			40-2.4Ne, 67-4Nm, 15-250Tex					
Sliver count	Cotton		0.20-0.083Ne, 0.33-0.14Nm, 3-7Ktex					
	Man-made fiber		0.24-0.12Ne, 0.4-0.20Nm, 2.5-5Ktex					
Opening roller speed		r/min	5000-10000 stepless					
Max. feeding speed		m/min	7					
Max. mechanical delivery speed		m/min	Cylindrical packages ≤ 200；　Taped packages ≤ 150					
Draft range			11-350					
Max. package dimensions		mm	Cylindrical packages: Φ320×150；　Taped packages: Φ285×150					
Max. package weight		kg	Cylindrical packages: 4.2;　Taped packages: 3.8					
Package form			Cylindrical packages；　Taped packages					
Cylindrical tube dimensions		mm	Φ54×170;　Φ39/Φ50×170					
Taped tube dimensions		mm	4° 20′ ；Φ33/Φ59×170;　Φ28/Φ59×170 2°：卷边：φ43/φ65×170					
Package density range		g/cm3	0.32-0.42					
Max. diameter of sliver can		mm	500 (20″)					
Max. height of sliver can		mm	1200					
Drive mode for rotors and opening rollers			Tangential belt					
Power supply	Voltage (standard)	V	380					
	Frequency (standard)	Hz	50					
	Installed power	kVA	74, 88, 112, 127, 155, 193					

机器的布置平面图 Layout Of Machine