

DX321G 系列短纤倍捻机

Two-For-One Twister For Short Fibers



设备特点

- 适合短纤的加捻，实现一转两捻，效率成倍增加，真正实现大卷装无接头，为客户提供优质纱线。
- 优质的机型设计，针对纺织工厂特殊的工作环境，采用高品质和高速锭子，确保客户在高效生产下设备、纱线品质和稳定性。
- 优质的节能设计，在战略协作方面，与世界级的节能先锋合作，不断创新，采用变频与节能电机，更节能，操作更方便。
- 采用油茶式收线箱，确保卷绕速度下的优质成型与运行稳定性。
- 优质的纱线通道，将纱线损伤降到最低，更迎合高品质纱线的要求（具有毛羽少、棉结少的特点）。
- 根据半精纺企业的特殊环境（高温、高湿、多品种、小批量、多颜色、多化学处理）为半精纺企业提供更多细节改进。



Main Features

- Applicable to twist short-staple, realizes 2-twisting at one rotation, redoubles efficiency, truly the piecing-less for a large winding roll, providing customers with quality yarn threads.
- Superior machine model design. Applies high quality and high speed spindles according to the textile mill special working ambience to assure of the stability of the equipment performance and yarn thread quality under the high efficient production.
- Superior energy-saving design. For the strategic cooperation we cooperate with the energy-saving pioneers at the world level, innovates consciously, applies the variable frequency and energy-saving motors, bringing more energy saving effect and more easier operation.
- Applies oil-bath gearbox to assure of a quality formation and running stability under the high winding speed.
- Quality yarn thread path, reducing the yarn injury to minimum, more applicable to meet the requirement for high quality yarn threads (less leathery down and less cotton neps)
- According to the special conditions (high temperature, high humidity, multi-variety, small lot quantity, multi-colouredness and plentiful chemical infatration) with semi-worsted spinning enterprises, provides the worsted spinning mills with improvement in more details enterprises.

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强强联合, 1+1>2

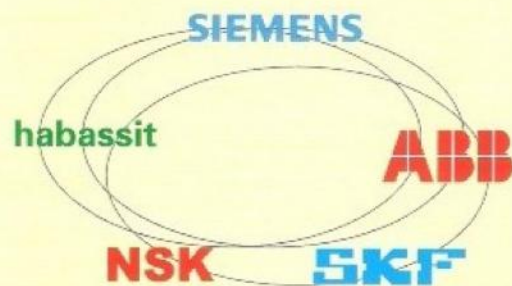
东星人在不断完善自身的创新体系, 同时也加强和国际知名企业建立战略合作伙伴。公司确立强强合作, 1+1>2的企业战略发展方向, 加速企业国际化接轨的进程。积极与世界知名品牌供应商建立端午节久的合作, 开发战略联盟, 不断创新。公司已通过ISO9002质量认证体系。

管理出效益这是企业经营永恒不变的真理, 东星公司在多年的发展中不断的壮大, 得益于不断创新的企业管理机制。

强Win-Win Co-operation 1+1>2

The company constantly improves technical innovation system by himself, and meanwhile to establish cooperation partnership with international famous companies. With strategy policy of Win-Win Co-operation as result of 1+1>2, company enhances the internationality cooperation procedure to establish longtime cooperation partnership with SIEMENS and ABB successively, which is a strong base for improving our products quality. Company has get ISO9002 quality management system certificate.

The profit from enterprise management which is a eternalities, thanks to the technology innovation and enterprise management system for Dongxing's development year by year.



☉ 在高支高密纺纱企业, 与山东鲁泰等纺织企业合作, 适合高支强捻, 正常转速在11500转/分, 具有高速低耗毛羽少, 成型优, 整径断头≤1次/500万米。

☉ 在半精纺行业, 与山东鲁银、滨州亚光毛线纺织合作, 针对高温、高湿, 有残留化学物质, 多品种, 少批量等特殊环境状况下, 为半精纺企业精心配做倍捻系列产品。

☉ 在针织纺纱行业, 与江苏华士集团、山东圣豪家纺等企业合作, 使低捻卷绕高速成为现实, 最高线速可达80米/分。为各类粗纺、针织纺纱企业提供高卷纺高产量倍捻。

☉ 在军品纺纱行业, 与江苏港洋集团等合作从事防弹、防刺、防割等特殊品种的加捻。

☉ 在长丝化纤类行业, 为客户提供5kg-10kg的大卷装倍捻机, 为牛津布箱包织造厂带来了革命。

☉ 在地毯纺纱行业, 与国内各知名地毯纺纱厂合作, 为其提供了5kg-8kg的优质大卷装纱线, 极大提高织造效率与减少用人。

☉ 采用最新的双电机结构, 有效解决了松紧边问题, 提高能耗的使用率, 延长龙带的使用寿命。

☉ To cooperate with Shandong Lutai textile company for producing high count and high desinty yarn with normal speed at 11500r/min. to achieve high speed, low consumption and less hairiness, bobbion yarn shape excellent, broken ends during beaming is ≤ 1 time / 500 million meters.

☉ To cooperate with Shandong Lutai and Bingzhou Yaguang companies for the semi-worsled wool under high temperature, high humidity and residual pollutant situation to produce a variety of products with small batch quantity.

☉ To cooperate with Jiangsu Huashi Group for knited yarn, Shandong Shenghao upholstery fabric to produce yarn at weak twist and high speed (up to 80m/min), with which specifications to improve the twist quality for wollen yarn and knited yarn.

☉ To cooperate with Jiangsu Gangyang Group for developing the special military textile products, which has the performance of cannon-proof, prick-proof and cut-proof.

☉ To cooperate with polyester filament yarn manufacturer, for developing the large diameter package twister (the package weight up to 5-10kg), which is a innovation for the oxford fabric and bag fabric manufacturer.

☉ To cooperate with the carpet yarn manufacturer, to provide 5-8kg large diameter bobbion yarn for reducing the labor cost obviously.

☉ To adopt double motors design for resolving the loosen and straightness of the belt, with which the production efficiency is increased and extend the life time for the belt.

目前重点推广机型

DX321G采用节能变频技术，225锭距，根据客户纱线要求装配φ137、φ146、φ166锭子，标准锭数162锭，车头长2.08米，车尾长0.82米，每节2.042米×9节，机器宽0.80米。

Promoting machine type to the market at present

DX321G applies an energy-saving frequency inverter technology, 225mm spindle distance. According to the customers requirement, φ137, φ146, φ166 spindles can be chosen. The number of standard spindles are 162 spindles. The control box of machine head is 2.08meters, the control box of machine and, 0.82meters, 2.042meters × 9sections; The machine width, 0.80 metres.

主要技术参数 Main Specifications

锭距选择 Spindle distance	200mm	225mm	254mm	290mm
可加工原料 Process material	棉、毛、涤及短纤维的加捻 Cotton, wool yarns, short staple			
操作方式 Operation method	手动 / manual	手动 / manual	手动 / manual	手动 / manual
每节锭数 Per-section spindle	20	18	16	14
每台节数 Per-unit section number	≤ 11节 / section	≤ 11节 / section	≤ 11节 / section	≤ 11节 / section
可纺支数 Spinnable count range	40S/2-160S/2	6S/2-160S/2	6S/2-80S/2	40S/2-21/12
锭速选择 Spindle speed	≤ 12000r/min	≤ 12000r/min	≤ 12000r/min	≤ 10000r/min
捻度选择 Twist selection	156-2027	156-2027	156-2027	76-1200
卷装尺寸 (喂入) Winding size (feed-in)	φ 137, φ 146	φ 137, φ 146, φ 166	φ 166	φ 196
卷绕筒管尺寸 Winding bobbin size	6"	6"	6"	6"
卷装重量 Winding weight	≤ 2.5kg	≤ 2.5kg	≤ 2.5kg	≤ 2.5kg
卷绕速度 Winding speed	≤ 80m/min	≤ 80m/min	≤ 80m/min	≤ 80m/min
锭子选择 Spindle selection	φ 137, φ 146	φ 137, φ 146, φ 166	φ 166	φ 196
卷绕筒管 Winding bobbin	按客户要求订做，一般为0°、3°、30'、4°、20'、5°、57'，长度为170mm左右 Normal choice as 0°, 3°, 30', 4°, 20', 5°, 57', lengthen about 170mm, on request by customer.			
卷绕角 Winding angle	10°、14°、47'、16°、36'、18°、41'、21°、07'			
动力配置 Power configuration	变频控制，标准型22kw Frequency inverter control, Standard type: 22kw (或 / or 9kw×2)			
标准锭数 Standard spindle number	180	162	160	112

产量计算方式 Output calculation formular

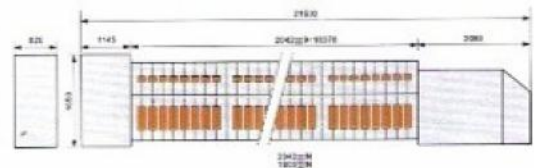
$$\text{纱速 Yarn speed} = \frac{\text{锭速 Spindle speed} \times 2}{\text{捻度 Twists No.}} \quad \text{Nm} = 1.6934 \times \text{Ne}(\text{count})$$

$$\text{产量 Production} = \frac{\text{纱速 Yarn speed} \times \text{锭数 Spindle No.} \times \text{工作时间 Winding time} \times \text{工作效率 Efficiency}}{\text{合股后的支数 Nm} \times 1000}$$

举例 Example: DX321G, 180锭倍捻加工80S/2, 934T/M, 11000r/min

$$\text{产量 Production} = \frac{23.55 \times 180 \times 24 \times 60 \times 0.99}{40 \times 1.6934 \times 1000} = 89.23 \text{ kg / Day}$$

机械尺寸 Dimensions



DX231E 高速并纱机

Two-For-One Twister For Short Fibers



设备特点

- 国内首家开发的直线型并纱机。
- 改变传统的纱线速度模式，更少转弯，纱线损伤更小，比传统并纱增加毛羽量下降50%，大幅下降并纱产生的有害毛羽。
- 单锭电机控制，操作、维修更方便。
- 使用效率高，低故障。
- 为倍捻提供更优质的并纱筒子，无分纱，无松紧纱，高速、高效，更有利于退解。
- 实现优质的并纱是倍捻成功的一半。

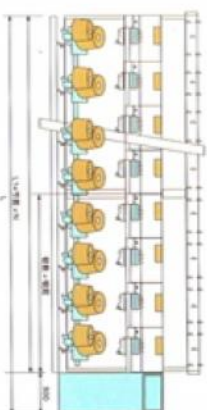
主要技术参数 Main Specifications

锭距 Spindle distance	350mm	420mm	550mm
每锭锭距 Per-section spindle	10	8	8
可并根数 Doubleable yarns	2-3	2-6	2-6
单锭卷绕速度 Linear speed	≤750m/min	≤750m/min	≤7.50m/min
驱动方式 Driving method	单锭驱动/longe spindle motor driven		
张力控制 Tension control	张力压片加力/电机 Tension presser plus motor		
纱线张力 Yarn thread breaker ends	光电检测 (光电检测) Photoelectric detection (optoelectric detection)		
往复给锭 Reciprocal stroke	0"		
选配装置 Optional devices	1/2" 沟槽扁簧, 进口槽簧 (扁簧可改1000根/分, 电子测力, 双磁头装置, 宽1/2" 沟槽扁簧, 改进型沟槽扁簧 (year speed up to 1000rpm), 电液控制 yarn-control, 自动给锭 device, 机头500+锭数2×锭距, 重1500		
机器尺寸 Dimension	total length is 450m of Electrical for + spindle number2 + spindle gauge with a 150mm and 1500mm high		

Main Features

- Changes the traditional yarn thread path mode, makes still less turnings, less yarn injuries. The increased hairy down with the traditional doubling reduces to 50%, greatly lowering down the harmful/hairy down generated by the doubling.
- Motor-spindle motor control, more easier operation and maintenance.
- High application efficiency, less trouble.
- Provides still more quality doubling bobbins for the two-for-one twisting, no yarn division, no elastic yarn, high speed, high efficiency, more facilitates the back-winding.
- With the quality doubling realized a half success in two-for-one twisting is obtained.

规格尺寸 Dimensions

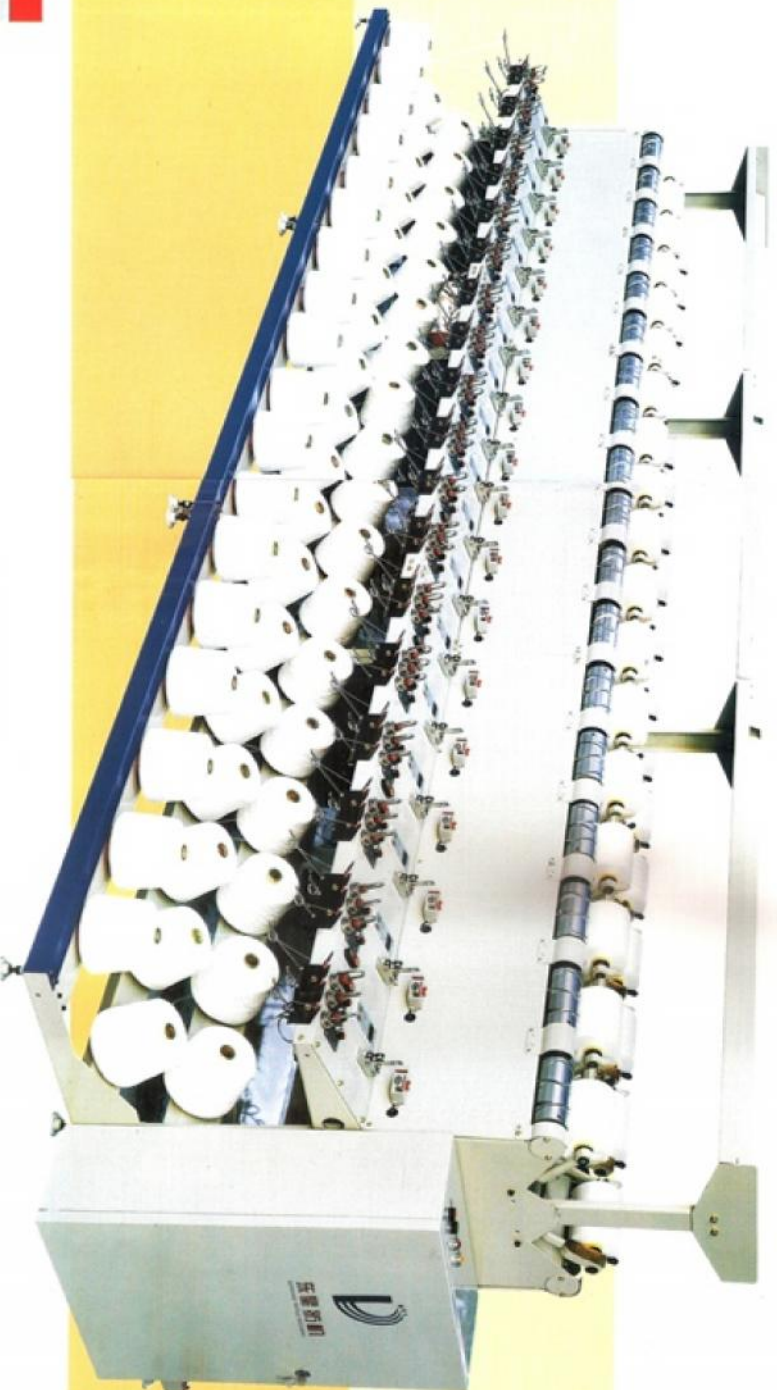


DX231D 高速并纱机

ASSEMBLY WINDER

设计特点

- 该机是我公司自行设计制造的一种新型并纱机，可将两股或三股的纱线合并为一股，可卷绕成圆柱筒子，适用于棉、毛、涤纶及混纺等纱线的合股加工。
 - DX231D并纱机实行机电一体化设计制造，结构简练，易于安装调整，操作方便，并具有中央电脑即开设置，单锭电机，电子定长，满筒自停，电子防叠，变频调速，单锭控制，断纱自停，各锭清零，数据记忆等功能。
- 提供的选附件：1、空气交接装置 2、除尘装置



Main Features

Our company designed and made the machine. It is a new mode spinning machine. The machine is able to double two or three yarns to one and clear for cotton, wool, chemical fiber etc. DX231D doubler manufactured on electrical design, simple construction, easy mounting, convenient operation and the machine has central computer device, spindle motor, length controlled by electrical, auto stop when spindles full, prevent recover by electrical, invert speed adjuster, single spindle controller, auto stop when yarn broken, spindles separate, digital memory, etc.

Optional: 1. Air connecting device 2. De-dust device



主要技术参数 Main Specifications

机座形式 Machine Type	双翼单层 Double Side, Single Layer
锭距 Spindle Gauge	280mm (336mm 420mm)
锭数 No. of Spindles	双锭双锭 (Double) 2锭 4锭 6锭 8锭 10锭 12锭 14锭 16锭 18锭 20锭 22锭 24锭 26锭 28锭 30锭 32锭 34锭 36锭 38锭 40锭 42锭 44锭 46锭 48锭 50锭 52锭 54锭 56锭 58锭 60锭 62锭 64锭 66锭 68锭 70锭 72锭 74锭 76锭 78锭 80锭 82锭 84锭 86锭 88锭 90锭 92锭 94锭 96锭 98锭 100锭
合并股数 No. of yarns	2-3股 / 2-3 ends, 4股选配 / 4 ends on request
并锭速度 Spindle Speed	300-750m / min
卷绕形式 Winding method	圆柱形 Cylinder
卷绕尺寸 Range of Twist	4.150-4.200-4.150mm
传动方式 Driving method	单锭传动 Single spindle driven
防叠方式 Take-up Mode	电子防叠 Electronic
电机功率 Motor Power	90-110 Kw/150hp
机器尺寸 Dimension	长 16000 x 宽 4000 x 高 16000 mm 总长 16000 x 锭距 280mm x 锭数 100锭 x 锭距 280mm 总长 16000 x 锭距 280mm x 锭数 100锭 x 锭距 280mm