

【国机集团国际化经营系列丛书】



国机制造

R&D AND MANUFACTURE

(2019版)

第五卷

中国恒天



国机集团

国机制造
R&D AND MANUFACTURE

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经纬纺织机械股份有限公司

JingWei Textile Machinery Co., Ltd.

公司名称：经纬纺织机械股份有限公司

Company Name: JingWei Textile Machinery Co., Ltd.

产品领域：纺织机械

经纬纺织机械股份有限公司（以下简称经纬纺机或公司）隶属于中国恒天集团有限公司，公司以纺织机械为主业，兼营金融信托业务。公司股票在深交所主板挂牌交易，股票代码：000666。

作为全球卓越的全流程棉纺成套设备供应商，经纬纺机传承民族纺机工业之精髓，秉持引领纺织发展之使命，为我国棉纺工业的发展壮大提供了坚实的装备保障。公司凭借六十余年的专业积淀，聚焦纺机、细分市场，在发展中逐步构建了“六大单元”（棉纺机械、织造机械、纺机专件、捻线机械、经编机械、印染机械）的产品格局。随着行业发展态势的不断变化，公司立足客户需求，持续科技投入，创新服务模式，以助力客户打造“智能纺织工厂”为着力点，向市场提供成套化的纺机装备和全流程的优质服务，始终保持了经纬纺机在业内的良好市场形象。

深耕纺机产业的同时，公司积极推进产融结合，通过投资金融信托业务，以金融资本的力量促进纺机实业的发展，取得了优异的成绩。作为我国较早登陆资本市场的上市公司，经纬纺机不断优化完善公司治理结构，取得了股东、社会、环境、员工等各利益相关方和谐发展的良好局面。

Product field: textile machinery

JINGWEI TEXTILE MACHINERY CO., LTD (here refer to as JWTM) is a listed subsidiary of China Hi-Tech Group Corporation, which specialized in textile machinery with sidelines in financial trust business. The company's stock was listed in Stock Exchange of Shenzhen with stock code 000666.

With sixty years of arduous entrepreneurship full of innovation and development, JWTM has become the world's preeminent supplier of complete cotton spinning equipment set. It inherits the quintessence of national textile machinery industry and adheres to the mission of guiding the textile development so as to the firm equipment support for the growth and strengthens of China textile industry.

JWTM has constructed a diversified operation pattern of "six units" (consists of spinning machine, weaving machine, twisting machine, wrap knitting machine, dyeing and finishing machine, and textile machinery accessories). Through the impeccable modernized corporate governance structure, it paves the globalized developing road, and enjoys a harmonious situation for the interests party as share-holder, society, environment and employees.

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Http: //www.jwgf.co

1 棉纺成套设备 1 COMPLETE SET OF SPINNING EQUIPMENT

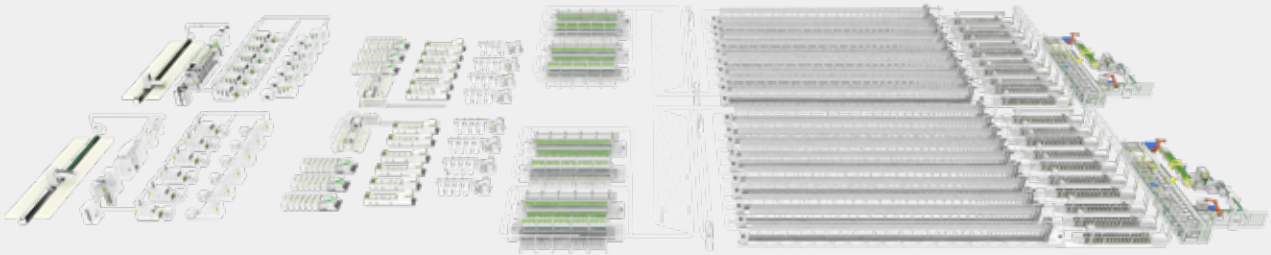


图 1— 十万锭纺纱智能生产线
1-100,000 Spindle Spinning Intelligent Production Line

产品介绍

经纬纺机是世界先进的棉纺织全流程成套设备供应商，成套工艺方案包括：精梳 / 紧密纺工艺、普梳工艺、气流纺工艺、机织工艺、针织工艺，高效省心 的交钥匙工程，可以确保最终成纱质量达到 2007 年乌斯特公报统计值的 5%—10% 水平。

Introduction of product

JWTM is the world's leading supplier of complete equipment set for cotton spinning. The complete set process solutions include: combing/compact spinning, carded spinning, rotor spinning, knitting and weaving technology. Together with the effective turn-key project, the quality of final yarn can be ensured to reach 5% to 10% of Uster Statistics in 2007.

2 棉纺数字化车间

2 Digital spinning workshop



图 2— 棉纺数字化车间
1-100,000 Spindle Spinning Intelligent Production Line

产品介绍

经纬纺机联合江苏大生共同打造的“棉纺数字化车间”项目顺利通过了国家验收，该系统成功应用了粗细络联系统、AGV 条桶输送系统、自动码垛打包系统和智能 e 系统，实现了条桶自动导航搬运、通过轨道将满筒粗纱送至细纱机，管纱全程自动喂给络筒机、筒纱自动码垛打包、e 系统远程监控等一系列新技术，车间装备数控化率大于 90%，万锭用工由普通车间的 45 人减少到 20 人，真正实现了民族纺织智能化示范生产线，是对“中国制造 2025”与“工业 4.0”等先进理念的积极实践。

Introduction of product

The "Digital spinning workshop" project jointly developed by JWTM and Jiangsu Dasheng Group Co., Ltd. successfully passed the national acceptance. The project successfully utilizes Roving-Ring-Winding Link system, AGV automatic navigation and Automatic Stacking Packaging system to realize automatic connection of various processes via the intelligent e system. Digital control rate of the workshop exceeds 90%. Labor requirement for 10,000 spindles reduced from 45 to 20. The project realizes the intelligent demonstration production line of textile industry, and it is the proactive practice of advanced ideas including "Made in China 2025" and "Industry 4.0".

经纬智能纺织机械有限公司

Jingwei Intelligent Textile Machinery Co., Ltd.

公司名称：经纬智能纺织机械有限公司

Company Name: Jingwei Intelligent Textile Machinery Co., Ltd.

产品领域：纺织机械

经纬智能纺织机械有限公司的前身经纬纺织机械厂，1954年8月建成投产，是建国初期国家重点建设的第一座现代化的纺机制造企业。1995年8月经纬纺织机械厂进行股份制改组，成立了经纬纺织机械股份有限公司。2000年重组后，原经纬股份公司以经纬股份榆次分公司的形式分立运行。

2018年，中国恒天和中纺机集团做出组建棉纺机械子集团的重大战略决策，以经纬股份榆次分公司为核心企业，将旗下的郑州宏大、青岛宏大、沈阳宏大、天津宏大、常德摇架、无锡销售、经纬新疆公司，全部纳入棉纺机械子集团管理。2018年8月，棉纺机械子集团——经纬智能纺织机械有限公司正式挂牌成立。目前，公司拥有11家子公司，在册职工4600多名。公司隶属于中央直接管理的国有重要骨干企业、世界500强企业——中国机械工业集团有限公司，是全球规模最大、品种最全、服务最优、技术水平和竞争实力达到国际一流水平的跨区域经营的纺织机械企业集团。

公司主要生产经营纺织机械中的棉纺机械成套主机产品、棉纺专件成套产品、棉纺机械技术服务等业务单元。棉纺机械主机成套产品主要包括梳棉机、清梳联合机、并条机、粗纱机、细纱机、精梳机、转杯纺纱机、自动络筒机等。棉纺专件成套产品主要包括锭子、罗拉、摇架、钢领、皮辊等。棉纺机械技术服务主要包括安装调试、产品改造、备件服务、售后服务等业务。主机产品和专件产品全部达到国内领先、国际一流水平，部分产品和技术达到国际领先水平。

棉纺织企业的规模统计以公司生产的主导产品细纱机作为基准机型，目前公司生产的棉纺纱锭占到全国1.3亿锭棉纺纱锭总量的1/2、占到全球棉纺纱锭总量的1/4。“经纬”品牌是国内第一、全球排名前三的纺机品牌。

公司在中国设立了8个销售技术服务公司，产品畅销全国并远销世界40多个国家和地区，海外销售业务约占业

Product field: textile machinery

Jingwei Intelligent Textile Machinery Co., Ltd., the predecessor of Jingwei Textile Machinery Factory, was founded and put into operation in August 1954. It was the first modern textile machinery manufacturing enterprise which was constructed by the state. In August 1995, Jingwei Textile Machinery Factory was share-holding reformed and Jingwei Textile Machinery Co., Ltd. was established. After the reorganization in 2000, the former Jingwei Textile Machinery Co., Ltd. was operated separately as Jingwei Textile Machinery Co., Ltd. Yuci Branch.

In 2018, China Hi-Tech Group Corporation and China Textile Machinery Group made a major strategic decision to set up the textile machinery sub-group. Jingwei Textile Machinery Co., Ltd. Yuci Branch, which is the core enterprise, Zhengzhou Hongda, Qingdao Hongda, Shenyang Hongda, Tianjin Hongda, Changde Arm, Wuxi Sales, and Jingwei Xinjiang Group have been combined into the textile machinery sub-group. In August 2018, Jingwei Intelligent Textile Machinery Co., Ltd. (the textile machinery sub-group) was established. At present, the company has 11 subsidiaries and more than 4,600 registered employees. Under the direct management of the central government, the China National Machinery Industry Corporation Ltd (Sinomach) is one of the key state-owned enterprises and one of the world's top 500 enterprises. It is a cross-regional textile machinery enterprise group with the largest scale in the world, the most complete varieties, the best service, the technical level and the competitive strength reaching the international first-class level.

The company mainly produces and manages a full set of textile machinery, a full set of special parts of textile machinery, technical services of textile machinery and other business. The textile machinery includes opening machine, carding machine, drawing frame, roving machine, ring spinning frame, combing machine, open end spinning machine and automatic winder, etc. The special parts of textile machinery mainly include spindles, rollers, weighting arms, rings and top rollers etc. The technical services of textile machinery mainly include installation and operation, machine modification, spare parts service and after-sale service. All the main machinery and special parts are in a leading position in China and the first-class level in the world, and some products and technologies are in a leading position in the world.

The statistics of textile enterprise scale takes the ring spinning frame as datum. At present, the total of Jingwei spinning spindles accounts for one half of the total of 130 million spindles in China, and one quarter of the total number in the world. "Jingwei" brand has been the number one in China and the top three in the world.

Jingwei has set up 8 sales and technical service companies in China. The products sell well all over the country and are exported to more than 40 countries and regions in the world, and the overseas sales account for about 20% of the total business. The company

务总量的 20%。建立了覆盖全国的 9 个区域服务中心，在海外建有服务机构，给客户提供贴心安心、延伸增值服务。

has established 9 regional service centers in China and service organizations abroad to provide customers with considerate and reassuring services and extended value-added services.

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1 环锭细纱机

1 Ring spinning frame

公司目前是中国最大的棉纺织机械制造基地，环锭细纱机是公司的核心产品。环锭细纱机是纺织生产流程中的纺纱设备，其技术程度的高低直接反映棉纺行业的发展水平。公司环锭细纱机具有智能、高速、高效、节能等特点，细纱机长车市场占有率约 80%。

Jingwei Intelligent Textile Machinery Co., Ltd is the largest machinery manufacture base in China and the ring spinning frames are its main products. The ring spinning frame is the spinning equipment in the textile production process and its technical level shows the development level of the textile industry. The ring spinning frames have the advantages of intelligent control, high speed, high efficiency, energy saving and so on and its market share is up to 80%.

1.1 JWF1580 超长智能细纱机

1.1 JWF1580 Overlong intelligent ring spinning frame



1—1 JWF1580 超长智能细纱机

1-1 JWF1580 Overlong intelligent ring spinning frame

产品介绍

JWF1580 系列超长智能环锭细纱机是公司引领细纱机发展潮流，以 JWF1566、JWF1582 系列细纱机为基础，融入快装技术、快速落纱技术、头尾双侧吸棉技术和纺纱智能专家系统开发的新一代超长智能环锭细纱机，整机能耗比现有机型降低 10%，整体性能达到国际先进水平，将是中高端客户升级换代的重要选择。

主要业绩

JWF1580 系列超长智能环锭细纱机被国内多家知名纺织企业选用，出口到马来西亚、乌兹别克斯坦。

Introduction of product

Based on JWF1566 and JWF1582, JWF1580 serial overlong intelligent ring spinning frame, a new generation basic machine which is leading the development trends with its entire performances reaching international advanced level, integrates quick-installment technology, quick-doffing technology, double-suction technology at both headstock and tailstock, and intelligent spinning expert system. Its energy consumption is reduced by 10% compared with the current ring frames. JWF1580 is an ideal choice for middle and high-end customers.

Main achievements

JWF1580 over-long intelligent ring spinning frames are selected by many well-known textile mills and exported to Malaysia and Uzbekistan.

1.2 JWF1579 高速智能型细纱机

1.2 JWF 1579 High-speed Intelligent Ring Spinning Frame



1—2 JWF1579 高速智能型细纱机
1-2 JWF 1579 High-speed intelligent ring spinning frame

产品介绍

JWF1579 高速智能型细纱机是经纬智能纺织机械有限公司根据当前环锭细纱机的发展趋势、产品现状、市场需求等，以现有技术为依托，紧跟国际先进水平，从满足用户对高速、高稳定性、高可靠性的要求出发，自主研发的新一代集电子牵伸、积极式升降、罗拉紧密纺、单锭断头检测、粗纱上循环、集体落纱等技术于一体的高速智能型细纱机。

主要业绩

JWF1579 高速智能型细纱机被国内多家知名纺织企业选用，出口到越南。

Introduction of product

JWF1579 high-speed intelligent ring spinning frame is a new type spinning machine integrated with electronic drafting, positive lifting, four-roller compact system, broken-end detection on each spindle, roving circulating system and auto-doffing. It is independently developed according to the present developing trend of ring spinning frame, product condition and market requirement, based on existing technology and following international advanced level to meet the requirements of high speed, better stability and high reliability from the customer.

Main achievements

JWF1579 high-speed intelligent ring spinning frames are selected by many well-known textile mills and exported to Vietnam.

1.3 JWF1566 智能升级型细纱机

1.3 JWF1566 Up-grading intelligent ring spinning frame



1—3 JWF1566 智能升级型细纱机
1-3 JWF1566 Up-grading intelligent ring spinning frame

产品介绍

JWF1566 系列环锭细纱机是公司引领细纱机发展潮流，以 JWF1562 系列为基础，融入快装技术、快速落纱技术和纺纱智能专家系统开发的新一代环锭细纱机。JWF1566 系列作为 JWF1562 系列的升级机型，将是中高端客户升级换代的重要选择。

Introduction of product

Based on JWF1562 ring spinning frame, JWF1566 ring spinning frame is a new generation machine which is leading the development trends and integrates quick-installment technology, quick-doffing technology, and intelligent spinning expert system. JWF1566, which is the up-grading type of JWF 1562, is an ideal choice for media and high-end customers.

主要业绩

JWF1566 智能升级型细纱机被国内多家知名纺织企业选用，出口到巴基斯坦、孟加拉等国。

Main achievements

JWF1566 up-grading intelligent ring spinning frames are selected by many well-known textile mills and exported to Pakistan, Bangladesh etc.

1.4 JWF1552 经典型短车集落细纱机

1.4 JWF1552 Classical short ring spinning frame with auto doffer



1—4 JWF1552 经典型短车集落细纱机细纱机

1-4 JWF1552 Classical short ring spinning frame with auto doffer

产品介绍

JWF1552 系列环锭细纱机是公司根据当前环锭细纱机的发展趋势、产品现状、市场需求等，从满足用户对高速、高稳定性、高可靠性的要求出发，基于 JWF1562 长车集落细纱机平台自主研发的国内领先、国际先进的新一代高端短车集体落细纱机。JWF1552 细纱机继承了 JWF1562 全部优点，与传统短车相比，锭速高，能耗低，采用电子凸轮升降技术，快速落纱技术，全自动理落管技术，自动化程度高，占地面积小，品种适应性广，是高端客户的首选。

主要业绩

JWF1552 经典型短车集落细纱机被国内多家大型纺织企业选用，出口到越南和马来西亚。

Introduction of product

JWF1552 series ring spinning frame is a new-generation domestically leading and internationally advanced short spinning frame with auto doffer, developed on the base of JWF1562 by Jingwei according to the current development trend, product status and market demands of spinning frames as well as the requirements from users on high speed, high stability and high reliability. Compared with the traditional short spinning frame, JWF1552 spinning frame inheriting all the advantages of JWF1562 has high spindle speed and low energy consumption. The ring spinning frame adopts electronic cam lifting technology, rapid doffing technology and automatic bobbin readying unit technology. The spinning frame with high-level automation, small land occupation area and extensive variety adaption has become the first choice of high-end customers.

Main achievements

JWF1552 classical short ring spinning frames with auto doffer are selected by many well-known textile mills and exported to Vietnam and Malaysia.

1.5 JWF1551 三元色智能型细纱机

1.5 JWF1551 intelligent three-primary color ring spinning frame



1—5 JWF1551 三元色智能型细纱机
1-5 JWF1551 intelligent three-primary color ring spinning frame

产品介绍

JWF1551 三元色智能型细纱机以三种基色（红、黄、兰）的粗纱喂入，通过智能数控牵伸，改变三基色成分配比，实现纱线颜色及纱支的变化，可纺制段彩纱、段彩竹节纱、渐变段彩竹节纱等各种纱线，使环锭细纱机具备了纺纱与智能配色的双重功能。此设备已在江苏、浙江、山东、安徽等地区实现销售。

主要业绩

JWF1551 三原色智能型细纱机已在江苏、浙江、山东、安徽等地区实现销售。

Introduction of product

JWF1551 intelligent three-primary-color ring spinning frame is fed with the rovings with three colors (red, yellow, blue), and the feeding ratio of the three primary colors is changed by an intelligent NC drafting system to realize the change of yarn color and yarn count. It can spin many kinds of yarns, such as section-colored yarn, section-colored slubby yarn and gradually changing section-colored slubby yarn, which ensures the ring spinning frame has the double functions of yarn spinning and color blending.

Main achievements

JWF1551 intelligent three-primary-color ring spinning frames have been sold to Jiangsu, Zhejiang and Shandong province.

1.6 JWF1589 新型高速智能系列环锭细纱机

1.6 JWF1589 High-speed Intelligent Series Ring Spinning Frame



1—6 JWF1589 新型高速智能系列环锭细纱机
1-6 JWF 1589 High-speed Intelligent Series Ring Spinning Frame

产品介绍

JWF1589 型环锭细纱机是公司根据当前环锭细纱机的发展趋势，依据现有成熟技术和国际先进结构研发的一款新型高速智能系列环锭细纱机。该机采用模块化设计和工业一体化设计，采用积极式升降系统，采用电子加捻、电子牵伸或机械牵伸技术，具有整节装箱的快速安装特点。可供用户选配竹节纱系统、紧密纺装置、单锭检车系统、粗纱停喂装置和氨纶包芯纱装置。该机在 22000~25000 转 / 分锭速下具有更高的稳定性和可靠性。

主要业绩

JWF1552 经典型短车集落细纱机被国内多家大型纺织企业选用，出口到越南和马来西亚。

Introduction of product

JWF1589 ring spinning machine is a new high-speed intelligent series ring spinning frame developed by the company according to the development trend of the current ring spinning machine, the existing mature technology and international advanced structure. The machine adopts modular and industrial integration design and positive lifting system. The machine adopts electronic twisting, electronic drafting or mechanical drafting technology, and quick installation technology of entire section packing. Slub-yarn system, compact system, individual spindle broken-end detection system, roving feeding stop device and spandex core-spun yarn device are optional. The machine runs more smoothly and reliably at the speed of 22000~25000 rpm.

Main achievements

JWF1552 classical short ring spinning frames with auto doffer are selected by many well-known textile mills and exported to Vietnam and Malaysia.

2 精梳机

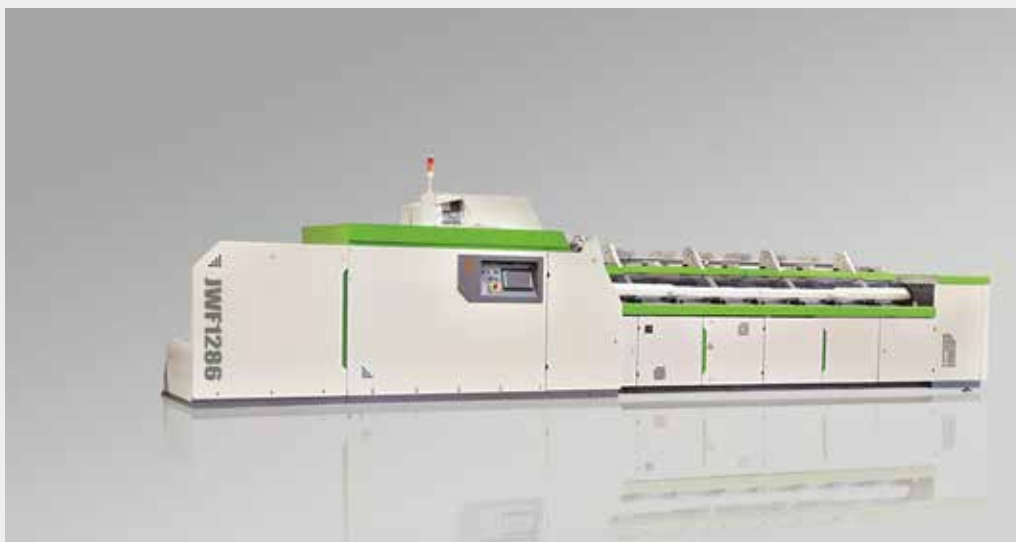
2 Comber

精梳机用于棉纺精梳工序。主要作用排除短绒，提高纤维的平均长度、纤维的伸直度、平行度，同时排除杂质和棉结，以适纺高支纱或其它纤维的混纺纱，并使成纱光洁，强度提高。公司精梳机在国内处于领先地位。

The Comber is used for combing process to produce combed slivers with straight, parallel fibers and remove the short fibers, neps and impurities. The combed slivers are suitable for spinning the fine yarn with better evenness and strength. The comber has been in a leading position in China.

2.1 JWF1286 型精梳机

2.1 JWF1286 Comber



2—1 JWF1286 型精梳机
2-1 JWF1286 Comber

产品介绍

JWF1286 型精梳机具备自动退管、自动换卷、自动接头功能，运转速度可达 500 钳次 / 分，为国内一流的精梳设备。

Introduction of product

JWF1286 Combing machine with automatic underwinding, automatic lap changing and automatic piecing-up functions is the first-class combing machine in China , and its maximum speed is up to 500 r/min.

2.2 JWF1278 型精梳机

2.2 JWF1278 Comber



2—2 JWF1278 型精梳机
 2-2 JWF1278 Comber

产品介绍

JWF1278 型精梳机是一款高速、高效、高自动化的全新精梳设备。该机集先进性、适用性、可靠性于一体，各项性能指标均有大幅提高，且棉结的排除率更优，运转速度可达 500 钳次 / 分，为国内一流的精梳设备。JWF1278 型精梳机在产量、质量和经济性方面都达到了最高标准，同时具备高度的灵活性。

主要业绩

JWF1278 型精梳机被多家知名用户所选用，并出口越南、印尼、缅甸和土耳其。

Introduction of product

JWF1278 Combing machine with the high speed, better efficiency and highly automatic level is the first-class combing machine in China. It integrates the advancement, applicability and reliability, and is of the highly improved performance index, better nep removing performance and the 500r/min running speed. JWF1278 combing machine meets the top level requirements in output, quality and economy.

Main achievements

JWF1278 combing machines are selected by many well-known textile mills and exported to Vietnam, Indonesia, Burma and Turkey.

3 条并卷机 3 Sliver lap machine



3-1 JWF1383 型条并卷机
3-1 JWF1383 silver lap machine

产品介绍

条并卷机作为棉精梳准备设备，其用途是将经过预并后的棉条进一步牵伸、并合，混合为片状后呈棉层输出，提高了纤维的伸直度和平行度。

JWF1383 型条并卷机性能可靠稳定，完全保证新型精梳机的生产需求。

Introduction of product

The silver lap machine, which is the combing preparation device, drafts and doubles the pre-doubled slivers into sheet and deliver it out in cotton layer with better straightness and parallelism. JWF1383 silver lap machine has reliable performance and meets all the needs from the combing machine.

主要业绩

JWF1383 型条并卷机配套经纬精梳机畅销国内外。

Main achievements

JWF1383 silver lap machine is sold with the Jingwei combing machine home and abroad.

4 转杯纺纱机 4 Open end spinning machine



4-1 JWF1618 转杯纺纱机
4-1 JWF1618 open end spinning machine

产品介绍

转杯纺纱机俗称气流纺纱机，它通过高速回转的转杯及杯内负压完成纤维的输送、凝聚、合并、加捻成纱的一种新型纺纱机，具有高速、高效、节省劳动力等优点。公司的转杯纺纱机能满足用户的不同需求。

Introduction of product

The open end spinning machine, commonly known as the rotor spinning machine, is a new type of spinning machine that delivers, condenses, merges, and twists the material into yarn through high-speed rotating cups and negative pressure in cups. It has the advantages of high speed, high efficiency, and saving labor. The open end spinning machine can meet various requirements from users.

主要业绩

JWF1618 型转杯纺纱机处于国内先进水平。

Main achievements

JWF 1618 open end spinning machine is in a leading position in China.

5 假捻变形机

5 False twist texturing machine



5-1 JWK2608 型假捻变形机

5-1 JWK2608 False twist texturing machine

产品介绍

假捻变形机是一种可将涤纶 (POY)、锦纶 (POY)、丙纶 (POY) 等无捻丝, 通过假捻变形加工成为具有高、中、低弹性弹力丝 (DTY) 的一种纺织机械。

JWK2608 型假捻变形机产量高、能耗低、适纺范围广, 特别适合中细旦涤纶 POY 长丝加工, 尤其是纺制 33dtex 以下的细旦丝, 与其它同类产品相比, 在丝的品质、满卷率和卷绕成型等方面具有很大的优势。该产品在技术先进性、纺丝品种多样性等方面已达到国内领先水平。

主要业绩

产品已出口到伊朗、埃及、台湾等地。

Introduction of product

False twist texturing machine is a kind of textile machinery, which can make the filament such as polyester, polyamide and polypropylene into draw texturing yarn (DTY) with different elasticity.

JWK2608 False twist texturing machine has the advantages of high output, low energy consumption and wide spinning range, and it is suitable for processing middle and fine polyester yarn, especially for fine yarn less than 33dtex. Compared with other similar products, it has great advantages in quality, full package rate and shaping. The product has been in a leading level in technology, spinning varieties and so on.

Main achievements

The machines have been exported to Iran, Egypt, Taiwan and other places.

6 剑杆织机 6 Rapier Loom



6—1 JWG1738 高速剑杆织机
6-1 JWG1738 High Speed Rapier Loom



6—2 JWG1732 高速剑杆织机
6-2 JWG1732 High Speed Rapier Loom

产品介绍

公司的剑杆织机具有高速、高效、高自动化、节能等特点，适用于以棉、毛、麻、丝以及混纺、合纤为原料的织物的高速织造。

JWG1732 剑杆织机生产转速能达到 600 转 / 分，技术水平国际先进、国内领先。

JWG1738 技术领先于目前市场上 500 转 / 分的剑杆织机，具有较高的性价比。

Introduction of product

The rapier loom is characterized of high-speed, high-efficiency, high-level automation and energy saving and so on and suitable for processing cotton, woolen, linens, man-made material and the blends at a high speed.

JWG1732 rapier loom is up to 600 rpm, which is leading in China and advanced in the world.

JWG1738 rapier looms are ahead of the other rapier looms whose speed is up to 500 rpm.

主要业绩

J WG1732—36 型剑杆织机已出口印度。

Main achievements

JWG1732-36 rapier loom has been exported to India.

7 罗拉 7 Roller



7-1 细纱机系列罗拉
7-1 Rollers for ring spinning frame



7-2 紧密纺系列罗拉
7-2 Rollers for compact system



7-3 多元色系列罗拉
7-3 Rollers for multiple-color ring spinning frame



7-4 精梳、条并卷系列罗拉
7-4 Rollers for combing machine and sliver lap machine

产品介绍

罗拉是纺纱机牵伸机构的主要零件，与上罗拉组成牵伸纱条进行牵伸，因此罗拉的质量直接影响输出纱条的均匀度。公司主要生产细纱系列罗拉，紧密纺系列罗拉，精梳、条并卷系列罗拉等。公司拥有先进的加工工艺流程线，确保罗拉产品的技术领先和性能优异。

主要业绩

经纬罗拉随主机销往海内外，市场占有率达到 38%。

Introduction of product

The rollers are the main parts in the drafting unit of the spinning machine, which combines with top roll to hold yarns. Therefore, the quality of the rollers directly affects the evenness of the spun yarn. The main products of our company are rollers for ring spinning frame, rollers for compact system, rollers for combing machine and sliver lap machine etc.

Main achievements

Jingwei rollers are sold with ring spinning frames abroad and its market share is up to 38%.

8 锭子 8 Spindle



8-1 光杆锭子：JW.D6803 系列
8-1 Bare spindle: JW.D6803 series



8-2 铝套管锭子：JW.D6811 系列
8-2 Aluminum covered spindle: JW.D6811 series



8-3 铝套管锭子：超越 JW.D6811 系列
8-3 Aluminum covered spindle: Super JW.D6811 series



8-4 新一代零卷绕锭子
8-4 Novel free-winding spindle

产品介绍

锭子是纺纱机上加捻卷绕的主要部件，锭子的数量衡量纺织厂规模，锭子的转速体现纺纱效率，锭子的好坏与纱线的质量、功率消耗、环境噪音、劳动生产率等密切相关。锭子是我公司主要的是专件产品，率先推出高速、节能、重载、免维护新一代锭子，满足市场和客户的技术发展需求。

主要业绩

经纬锭子已被多家国内知名客户配套使用。

Introduction of product

The spindles are the main twisting and winding parts on the spinning machine. The speed of spindle reflects the spinning efficiency and the spindle number is used to measure the scale of textile mills. The quality of spindle is closely related to the quality of the yarn, power consumption, noise, and labor productivity etc. The spindle is the main special parts of the company. Our company mainly produces spindles with high speed, energy saving, heavy load and free maintenance for ring spinning frame, to meet the technological development requirements from the market and customers.

Main achievements

Jingwei spindles has been adopted by many well-known textile mills.

9 钢领

9 Ring



9-1 G 系列高速钢领
9-1 G series high-speed ring

产品介绍

钢领是环锭细纱机卷绕部件的重要组成部分，和钢丝圈形成一对摩擦副，共同对纱线起加捻卷绕作用。经纬钢领品种齐全，适用于棉纺、化纤的纯纺及混纺，可纺 6s ~ 300s，尤其适用于紧密纺。在保证成纱质量的前提下，G 系列高速平面钢领能满足转 / 分的纺纱速度，G 系列高速锥面钢领能满足 22500 转 / 分的纺纱速度。

主要业绩

经纬钢领位居国内前三，出口到世界许多国家。

Introduction of product

The rings are an important part for winding system in ring spinning frame, and they are combined with travelers to twist and wind the yarn. Various Jingwei rings are suitable for spinning cotton-chemical fiber and their blends. Its spinning range is 6s~300s and is especially suitable for compact spinning. The G series high-speed plane rings are suitable for the spinning with a speed of 19000~20000 rpm while the cone rings are suitable for the spinning of 22500 rpm.

Main achievements

The Jingwei rings rank in the top three in China, and are exported to many countries in the world.

10 上罗拉轴承 10 Top roller bearing



10-1 SL1 系列上、中上罗拉轴承
10-1 SL1 series top roller bearing and middle top roller bearing



10-2 配套 Suessen 公司 Elite 紧密纺系统上罗拉轴承
10-2 Top roller bearings for Elite compact system by Suessen



10-3 配套 Rotorcraft 公司紧密纺系统上罗拉轴承
10-3 Top roller bearings for compact system by Rotorcraft

产品介绍

上罗拉轴承是环锭细纱机牵伸部件的重要组成部分，套制胶辊后与下罗拉形成一对牵伸副，对纱线进行牵伸，达到后道工序需要的支数。

公司生产的 SL1 系列上罗拉轴承可配套各种细纱机、粗纱机，公司也生产各种紧密纺上罗拉专件。

主要业绩

经纬上罗拉轴承随主机畅销全国各地，并远销世界多个国家和地区，市场占有率为 30% 左右。

Introduction of product

Top roller bearings are the key parts in the drafting unit in ring spinning frame. The top roller bearing covered with rubber cots and bottom roller form a draft pair, through which the needed yarn count for the following processes can be reached.

The SL1 series top roller bearings for ring spinning frame and roving frame. Jingwei supplies the roller bearing suitable for the various compact systems as well.

Main achievements

Jingwei top roller bearings are sold with the ring spinning frame home and abroad and its market share is up to 30%.

郑州纺机工程技术有限公司

Zhengzhou Textile Machinery Engineering & Technology Co. Ltd

公司名称：郑州纺机工程技术有限公司

Company Name: Zhengzhou Textile Machinery Engineering & Technology Co. Ltd.

产品领域：纺织机械

郑州纺机工程技术有限公司（简称郑纺机），始建于1949年，原为国营郑州纺织机械厂，历史悠久。现公司位于郑州市高新技术开发区梧桐街258号，隶属于中国恒天集团有限公司，是中国纺织机械（集团）有限公司的子公司，是世界三大清梳联设备和两大涤纶短纤设备制造商之一，是全球最大的粘胶设备和浆纱设备供应商，是唯一拥有提供各种非织造布工艺成套设备能力的大型现代化企业。公司集产品研发、生产制造、营销售后一体化，为用户提供全流程服务，实现交钥匙工程。主导产品技术水平世界先进，国内领先，在国内具有较高的市场占有率，并出口到世界65个国家和地区。

Product field: textile machinery

Zhengzhou Textile Machinery Engineering & Technology Co. Ltd. (hereafter referred to as Zhengzhou Textile Machinery), founded in 1949, is formerly state-owned Zhengzhou Textile Machinery Factory. Located in No. 258 Wutong Street, Hi-Tech Development Zone, Zhengzhou City, and affiliated to CHTC, It is one of the three international biggest blowing-carding units equipment manufacturers, and it is one of the two international biggest polyester staple fiber equipment manufacturers, the largest supplier of viscose equipment and sizing equipment in the world, and also the only large-scale modern enterprise which can provide all kinds of complete non-woven equipments.

The company integrates product R & D with manufacturing, as well as with marketing and after-sale service, to provide whole process service for the users, implementing turnkey project. The technology reaches advanced international standards and is leading the pack in domestic. The main products, ranking the high market share in China, have also been exported to 65 countries and areas in the world.

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1 涤纶短纤成套设备 1 Complete set of Polyester



图 1— 涤纶短纤生产线



图 2— 紧张热定型机

产品介绍

郑州纺机为世界两大涤纶短纤设备制造商之一，总结几十年来的经验，推出了当今先进、完美的涤纶短纤维加工设备，纤维优等品率均达到 98% 以上，赢得了广大客户的好评。我公司可提供从熔体管道到盛丝桶往复装置、从集束架到切断、打包的涤纶短纤维成套设备，设备单线生产能力从日产 25 吨、50 吨、65 吨、100 吨、150 吨到 225 吨，并可根据用户需求提供适用于不同品种规格涤纶纤维生产的成套设备，并具备工程设计、工艺开车、交钥匙工程的能力。

主要业绩

目前已向国内销售生产线 300 条，向印度、印尼、泰国、伊朗等国家出口生产线二十二条。

Introduction of product

Zhengzhou Textile Machinery Engineering & Technology Co., Ltd. is one of the two largest PSF equipment manufacturers in the world. Sums up the experience of several decades, and puts out the advanced and perfect shot-staple processed equipment. The high-class rate of fiber achieves over 98%, which gains the favorable comment of vast customers.

We can provide complete set of polyester staple fiber equipment from melt pipes to can traverse, and then from tow creel to cutter and baler. The capacity of the whole line is 25TPD, 50TPD, 65TPD, 100TPD, 150TPD, 225TPD and so on. According to users' requirements, we can provide polyester staple fiber equipment with different specification, which owns the ability equals to turn-key project.

Main achievements

We have provided 300 PSF production lines to domestic customers and exported 22 lines to India, Indonesia, Thailand, Iran, etc.

2 粘胶短纤成套设备

2 Complete set of Viscose Equipment



图 3— 精炼机



图 4— 黄化机

产品介绍

郑州纺机粘胶纤维设备研制始于二十世纪五十年代，为世界最大的粘胶短纤设备制造商，能提供包括原液、后处理的成套设备。经过半个多世纪的不断探索实践和发展创新，现已成为在世界唯一能够提供粘胶纤维成套设备的供应商，所制造的粘胶纤维生产线累计产能超过 450 万吨，市场综合占有率达到 90% 以上。目前生产的设备单线产能达到 12 万吨 / 年，为世界之最。

主要业绩

目前已向国内销售生产线 60 条，向印度、印尼、泰国等国家出口二十条线。

Introduction of product

The development of viscose fiber equipment of Zhengzhou Textile Machinery Engineering & Technology Co., Ltd. began in the 1950s, which is the largest VSF equipment manufacturer all over the world. We can provide complete set of VSF equipment, including viscose equipment and after-treatment machine. After more than a half a century of continuous exploration and innovation, it has become the only supplier that can provide complete sets of viscose fiber equipment to customers in the world. The cumulative production capacity of the viscose fiber production line has exceeded 4.5 million tons, and the market share has reached more than 90%. The produce capacity of single line is reached to 120000 tons/year at present, which the best in the world.

Main achievements

We have provided 60 VSF production lines to domestic customers and exported 20 lines to India, Indonesia and Thailand, etc.

3 合成纤维长丝成套设备

3 Complete set of filament machine



图 5— 合成纤维长丝成套设备

产品介绍

郑州纺机具有近二十年的长丝成套设备研发制造经验，可以提供包括工程设计、纺丝、卷绕在内的整套生产线的设备和服务，设备可生产 POY，FDY 和母丝。

Introduction of product

Zhengzhou Textile Machinery Engineering & Technology Co., Ltd. has nearly twenty years of experience in developing and manufacturing, we can provide filament equipment and service, including engineering design, spinning and winder, which can produce POY, FDY and mother yarn.

主要业绩

目前已向国内销售 3500 个位，向印度、印尼出口 152 个位。

Main achievements

The equipment has been provided to Chinese customers about 3500 positions and exported to India and Indonesia for 152 positions.

4 剑杆织机

4 Rapier Loom



图 6— 剑杆织机

产品介绍

郑州纺机生产剑杆织机生产已经有 20 多年的历史。前期出产了 G1611/1613, 近几年成功的研发了 G1736, G1739 型高速剑杆织机, 以其速度, 可靠性和技术先进性快速推向市场, 在牛仔布, 色织布, 服装面料, 毛麻类及特殊工业用布, 大提花等品种得到了成功的验证。在节能环保, 智能制造, 信息化网络自动化织造生产管理都有很大的突破和提高, 其技术水平达到了国内领先。

主要业绩

目前已向国内销售织机 21559 台, 出口到缅甸、越南、印度、孟加拉、乌兹别克斯坦等国家 10000 余台。

Introduction of product

Zhengzhou textile machinery engineering and technology Co.Ltd has produced high-speed rapier looms for more than 20 years. Early produced the G1611/1613, especially in recent years, the G1736 and G1739 high-speed rapier looms have been successfully developed, which are quickly introduced to the market with their speed, reliability and technological advancement. The machine also has been successfully verified in denim, yarn-dyed fabrics, apparel fabrics, and ramie, special industrial fabrics, large jacquard and other varieties. It has made great breakthroughs and improvements in the energy-saving and environmental protection, intelligent manufacturing, information network automation weaving production management, and its technical level has reached the leading level in domestic.

Main achievements

Until now, our rapier looms have been exported to Burma, Vietnam, India, Bengal, Uzbekistan, etc. Till now, we have provided Chinese customers for 21995 sets of weaving machines and exported more than 100,000 sets.

5 浆纱机 5 Sizing Machine



图 7— 浆纱机

产品介绍

郑州纺机是我国浆纱机最大的生产基地，是国内浆纱机市场的主导者和领军者，浆纱机近年来主导产品也逐步完成了由七单元 GA308 系列浆纱机升级换代为九单元 GA310/313 系列浆纱机，设计可满足车速 1—125 米 / 分的高速，卷绕直径 $\Phi 110$ — $\Phi 1250$ mm 大直径，工作幅宽满足 180、200、220、240 各种规格，配套高速整经机 ZGA121/129 系列。

主要业绩

目前已向国内销售浆纱机近 1000 台，出口至印尼、孟加拉、巴基斯坦、俄罗斯、摩洛哥等国家 60 余台。

Introduction of product

Zhengzhou textile machinery engineering and technology Co.Ltd is the largest production base of sizing machine in China. It is the leader of the domestic sizing machine market. In recently years, the main products of sizing machine has upgraded to 9-unit GA310/313 series from 7-unit GA308 series sizing machine, which can meet various specifications, such as high speed of 1-125 m/min, winding diameter from $\Phi 110$ mm to $\Phi 1250$ mm, and the working width of 180cm, 200cm, 220cm, 240cm, it also equipped with ZGA121/129 series high-speed warping machine.

Main achievements

Until now the sizing machine has been sold domestically 1000 sets, exported to Indonesia, Bengal, Pakistan, Russia, Morocco for more than 60 sets.

6 水刺生产线

6 Spun-laced Production line



图 8— 水刺生产线



图 9— 水刺机

产品介绍

郑纺机唯一拥有提供各种非织造布工艺成套设备能力的大型现代化企业。其中水刺成套设备技术水平国内领先、国际先进，先后推出了 1.8 米、2.5 米、3.5 米系列幅宽水刺生产线，具有高速、高产、低能耗、无污染、自动化、数字化、智能化等特点。

主要业绩

目前已向国内销售 185 条生产线，出口到俄罗斯、越南、土耳其、印度等国家 12 条线。

Introduction of product

Zhengzhou textile machinery engineering and technology Co., Ltd, with rich R&D strength and strong manufacture capabilities, has launched different spunlace production lines with width of 1800mm, 2500mm, 3500mm, which are characterized by high speed and capacity, low energy consumption, non-pollution, as well as automation, digitization and intelligence. Among them, the technology of spunlace production line is belonging to domestically leading and Internationally advanced.

Main achievements

The machines were provided domestically for 185 production lines at present, and exported to Russia, Vietnam, Turkey, India and so on for 12 lines.

青岛宏大纺织机械有限责任公司

QINGDAO HONGDA TEXTILE MACHINERY CO., LTD.

公司名称：青岛宏大纺织机械有限责任公司
Company Name: QINGDAO HONGDA TEXTILE MACHINERY CO., LTD.

产品领域：纺织机械

青岛宏大纺织机械有限责任公司是经纬纺织机械股份有限公司子公司，是国家纺织机械制造行业的大型骨干生产企业，是纺织梳理设备的重要生产基地。

公司技术中心被评为“国家技术中心”，清梳产品获得中国纺织工业协会科技进步一等奖，是国家科委“九五”推广项目。企业三大主导产品梳棉机、清梳联合机、自动络筒机，均通过了 ISO9001 国际质量体系认证，被评为全国质量工作“先进单位”。

新环境，新举措，与时俱进，青岛宏大纺织机械有限责任公司经纬中国纺机的发展壮大、为中国纺织行业的技术进步、提高在国际市场上的竞争力而努力奋斗。

Product field: textile machinery

Qingdao Hongda Textile Machinery Co., Ltd (hereafter referred to as QHTMC) is the subsidiary company of Jingwei Textile Machinery Co, Ltd. It is a large-scale backbone enterprise of textile machinery manufacture as well as an important manufacturing base for cotton carding machinery and auto-winder.

The Technology Center of QHTMC is certified as the National Technology Center. Its blowing-carding machinery wins the First-class Scientific and Technological Progress Award issued by China Textile Industry

Association and is the promotion program in The Ninth Five-year Plan of the State Science and Technology Commission. The three leading products of QHTMC-carding machine, blowing-carding machine and auto-winder, have all passed the ISO9001 quality system authentication, winning the honor of "Pioneer Enterprise of National Quality Control".

Facing the new situation, Qingdao Hongda Textile Machinery Co., Ltd will be committed to continuous contribution to the development of Chinese textile machinery, the technological progress of the Chinese textile industry and the improvement of its international competitiveness through taking new measures, keeping pace with the times

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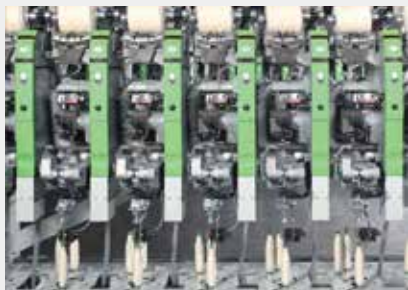
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1 自动络筒机 1 AUTO-WINDER

1.1 VCRO-I 细络联型自动络筒机 1.1 AUTO-WINDER LINKED WITH SPINNING FRAME



1.1 VCRO-I 细络联型自动络筒机



1.1.1 高品质



1.1.2 优质高效的生头装置



1.1.4 槽筒采用无刷电机同轴驱动



1.1.3 高效智能的落筒小车

产品介绍

该机型是在原 SMARO-I 型细络联型自动络筒机的基础上，根据用户的最新需求而研发的新一代细络联型自动络筒机，可与任一型式的细纱机对接，细纱机最多可配置 1800 锭，能满足用户从 6 英支至最高支数纱线纺纱要求，设备稳定可靠性进一步提升，产品成纱质量优良，操作更为方便简单。其最大亮点是配置了细纱质量追踪系统，利用 RFID 射频技术，对问题管纱能追溯到细纱锭子，从而快速排除细纱问题，提高纱线质量。

Introduction of product

The new generation of auto-winder with linking is developed as per latest needs of end users which is a new model based on SMARO-I auto winder with linking system and could link with any spinning machines with longest length to 1800 spindles. The new auto-winder can meet the requirements of customers from Ne. 6 to the highest count of yarn. It's featured with improvements in stable and reliable performance, winding into perfect package and easier to be operated. Its brightest spot is the spinning quality tracking system by using RFID i.e. radio-frequency technique, the faulty bobbins can be traced back to the spindle of the spinning machine, thereby to solve the pinning problem and improve the quality of yarn.

主要技术参数

The main technical parameters

型式 Type	单锭式，单面排列，左、右手车 Single-spindle, single-sided arrangement, left hand or right hand
适用范围 Fields of application	Nm3.5 至最高支数的棉、毛、化纤和混纺的单纱及股线 Nm3.5 to the highest count cotton, wool, synthetic and blended spinning yarn or plied yarn
卷绕速度（米/分） Winding speed (m/min)	400-2200，无级调速 400-2200, stepless speed regulation
卷绕头数 Number of winding spindles	6-36 锭，每隔 2 锭间隔递增 6 to 36, every two spacing increment
锭距（mm） Spindles distance	320
适用筒管锥度 Applicable bobbin taper	4°20', 5°57'
喂入管纱规格（mm） Feeding bobbin yarn specification	φ=32~43, L=180-230mm
接头型式 Joint type	空气捻接器，加湿捻接器 Air splicer, Aquasplicer
清纱型式 Electronic clearer	可配 USTER、LOEPFE 最新电子清纱器 USTER, LOEPFE
槽筒 The winding drum	采用直流无刷电机同轴驱动槽筒，无级调速 DC motor coaxial transmission, step-less speed regulation
筒子防叠 Anti-patterning	通过全程控制电机变速实现 Electrical anti-patterning system
接头循环 Joints circle	电器逻辑控制，智能循环 Electrical logic control, intelligent cycle
张力控制 Tension control	电磁加压，闭环控制 Electromagnetic weighting, closed-loop control
上腊装置 Waxing	选用 Optional
生头能力（只/分） Picking ability	40(双生头，选用) 40/min(double Piecing Unit, option)
托盘直径（mm） Support disc diameter (mm)	φ70
通道数量 Channel No.	送管 2 条，退管 1 条 Two for bobbin forward, one for bobbin back
总装机功率（KW） Total Installation power	28
机器外形尺寸（32 锭）（LXWXH）（mm） Dimension(32 spindles)	15240X1818X2650

产品特点

(1) 高品质：实现了管纱自细纱机到自动络筒机的自动输送，改善了纱线的清洁情况，避免了纱线的接损伤。

(2) 高效率：解决了长期以来国际上一直难以解决的纺纱工艺中细纱卷装和速度的矛盾，大幅度提高了细纱机的锭速，提高了生产效率。

(3) 自动化水平提高，节省人工：不用人工落纱、插管，完全节省了人力，使棉纺厂用人最多、劳动强度最大的两个工序直接连接，实现自动化、连续化生产，提高了产品质量和劳动生产率。

Product features

(1) HIGH QUALITY: Automatic bobbin feeding from spinning frame to auto-winder improves yarn cleanness and avoids yarn contact damage.

(2) HIGH EFFICIENCY: To solve the friction between package of spinning frame and speed so as to enhance the spindle speed of spinning frame and increase productivity.

(3) ENHANCING AUTOMATIC LEVEL SAVING MANPOWER: To transport yarn package and feed bobbin automatically so as to save labor and connect the two labor-intensive procedures directly not only to realize automation and continuous production but also to improve quality and enhance productivity.

1.2 VCRO—E 托盘式自动络筒机

1.2 AUTO-WINDER WITH TRAY



图 1.2 VCRO—E 托盘式自动络筒机



图 1.2.1 优质高效的生头装置



图 1.2.2 智能化纱库集中供纱



图 1.2.3 灵活的管纱处理系统



图 1.2.4 槽筒采用无刷电机同轴驱动

产品介绍

该机型是在 SMARO-E 托盘型自动络筒机的基础上，根据用户的最新需求而研发的新一代托盘型自动络筒机，能满足用户从 6 英支至最高支数纱线纺纱要求，最多可配置 72 锭，设备稳定可靠，产品成纱质量优良，品种适应范围广，操作更为方便简单。该设备已有多项技术申请国家和国际发明专利。

Introduction of product

The new generation of auto-winder with tray is developed per latest needs of end users which is a new model based on SMARO-E auto winder with tray. The new auto-winder can meet the requirements of customers from Ne. 6 to the highest count of yarn and it can have 72 spindles in one machine. With several international and national patents for invention are applied for the new machine. It is featured with stable and reliable performance, winding into perfect package, adapting to wide range of various types of yarn and more convenient and easier to be operated.

主要技术参数

The main technical parameters

锭数 No.of Spindles	6-72 锭
型式 Type	单锭式，单面排列，左、右手车 Spindle, single-sided arrangement, left hand or right hand mahine
加工产品范围 Application	棉、毛、麻、化纤的纯、混纺纱线及股线 Cotton、wool、linen and synthetic fiber pure or blended, or plied yarn
可加工纱支数 Count of yarn processed	Ne6 到最高支 Ne6 to the highest
工作负压 Working negative pressure	变频调速 Speed adjusted by inverter
管纱处理型式 Patterns of bobbin processing	单 / 双插管，双 / 三生头 Single/double bobbins, double or triple piecing unit
槽筒驱动 Drum	直流无刷电机直接驱动 Driven by DC brushless motor
筒子防叠 Anti-patterning	通过全程控制电机变速实现 Electronic Anti-patterning system
筒纱握持 Package holder	后弯弓 Behind bow style
张力型式 Tension type	盘式 / 栅式 Disc/Grid
纱管尺寸 (mm) Bobbin size	长度 180-230; 直径 32-43 Length 180-230; Diameter 32-43mm
卷绕速度 (m/min) Winding speed	400-2200, 无极调速 400-2200, stepless speed adjustment
接头型式 Splicer	Mesdan798Q 空气捻接器, 水雾捻接器 Mesdan798Q jointair/splicer, Aquasplicer
清纱型式 Electronic clearer	USTER/LOEPFE 电子清纱器 USTER/LOEPFE
生头能力 (支 / 分) Piecing capability (bobbins/min)	50 三生头 50 3yarn picking
筒管存储量 Quantity of bobbin storage	4 支 4 Bobbins
通道数量 No.of convey belts	送管 3 条, 退管 2 条 3 belts for supply, 2 belts for return
外形尺寸 (mm) Overall dimension	27142x1818x2650 (60 锭)

产品特点

(1) 纱库集中喂纱，大幅减少用工，实现自动化：不用人工插管，仅需将细纱管纱箱推至络筒机就能络纱，整个过程实现自动化、连续化生产，提高了劳动生产率，同普通纱库形式的自动络筒机相比，可减少 70%用工。

(2) 在线检测，自诊断自供给，实现智能化：采用传感器在线检测反馈技术，可根据系统内管纱的存量自动调整供给量，自动启动振动输送及管纱喂给，最大限度地实现了自动化程度和灵活性。

(3) 全机监控，精确显示运行状况，实现集中控制：人机界面四级菜单显示，传感器采集数据，上位机情景显示故障精确位置，实时监测纱线运行情况，丰富的上位机显示和存储功能，增加健康管理、工艺配方，满足高端用户生产管理要求。

Product features

(1) Feeding yarn by big magazine can great reduce labor: Need not manually insert tube, operator only need to push tube box from spinning frame to winder for winding. The whole process realizes automatic and successional production and enhance production efficiency. Compared with common auto-winder, it can reduces 70% labor.

(2) On-line detection, self-diagnosis and self- supply : According to actual production, on-line detection and feedback from sensor automatically start vibration transportation and tube yarn feed featured by maximum automation and flexibility.

(3) The Inspector Control System Realizes Complete, Control over running accurately: Human-machine interface display four levels menu, sensor collect data, ICS display scene of fault accurate position, real-time monitor yarn performance. ICS's abundant display and storage function can increase health management and technological recipe to meet the needs of high-end customers.

2 开清梳联合机

2 Combined Opening/Blowing/Plucking machine

2.1 抓棉机

2.1.1 JWF1011 型往复抓棉机

2.1.1 RECIPROCATING BALEPLUCKER



图 2 清梳联－清花单元



图 2.1.1 JWF1011 型往复抓棉机



图 2.1.1 打手



图 2.1.2 JWF1007 系型圆盘抓棉机

产品介绍

JWF1011 型往复抓棉机在继承 JWF1009 型往复抓棉机的成熟工艺技术的基础上，对影响产量的关键部件如抓臂、吸腔、打手、栅板、压棉辊、吸槽等结构进行优化设计，以满足 2000kg/h 的产量要求。

Introduction of product

On the basis of inheriting the mature technology of JWF 1009, the key parts affecting production of JWF1011 such as plucking arm, suction chamber, beater, grid, cotton compressing roller, suction slot etc have been designed in optimum to meet production of 2000kg/h.

主要技术参数

The main technical parameters

适用原料 material suited	76mm 以下纯棉或化纤 pure cotton or chemical fibre below 76 mm
产量 production	2000kg/h
抓棉宽度 plucking width	2300mm
棉包最大高度 the maximum bale height	1.6m
吸槽长度 Suction slot length	16~50m
打手转速 beater speed	变频调速 speed controlled by inverter
打手下落深度 beater descending speed	0.1~20mm
刀片数量 blade number	22PSC
整机总功率 total power installed	11.92kW
打手驱动功率 beater driven power	8kW

产品特点

- (1) 增加打手刀片齿数，实现精细抓取；
- (2) 打手采用双电机单独传动，满足产量 2000kg/h 的要求；
- (3) 加大打手中心距，减少打手之间高速旋转而形成的气流的相互影响，有利于棉束的顺畅转移；
- (4) 压棉辊采用钢板星形圆盘焊接圆辊，平整棉包。采用电机链条传动，跟踪塔身的运行状态，利于抓取棉束；
- (5) 优化抓臂吸腔形状，利于吸腔吸风量均衡分布，提高棉束转移效率；
- (6) 增大吸槽面积，适应高产棉流输送；动作灵活、精准可靠，自动化智能化程度高，便于清梳联系统集成控制；
- (7) 栅板增加高度调节功能，满足用户的不同产量需求；
- (8) 满足一机两线，三个品种的工艺需求。

Product features

- (1) Increased teeth of beater blade to realize fine plucking.
- (2) Beater drive by double-motor independently meet production of 2000kg/h.
- (3) Enlarged beater center distance reduces the interaction of air current produced by beater high speed rotary, favorable of cotton tuft smooth transfer.
- (4) Cotton compressing roller is welded by star-shape steel disc and driven by chain motor to track tower motion, favorable of cotton tuft plucking.
- (5) Profile of suction chamber is optimized, favorable of air suction volume even distribution and increasing tuft transfer efficiency.
- (6) Enlarged suction slot area is favorable of high production cotton current transportation.
- Flexible action, reliable precision, high automation and intellectualization, ensure convenient integrated control of blowroom & card system.
- (7) Increased grid height adjustment can meet different production requirement from user.
- (8) Meet the technological requirement of one machine two lines for three types of material.

2.1.2 JWF1007 系型圆盘抓棉机

2.1.2 DISK PLUCKER



图 2.1.2 JWF1007 系型圆盘抓棉机

产品介绍

本机是开清棉联合机中的重要设备之一，适用于各种等级的棉、棉型化纤和中长化纤，一般配置两台并联使用。抓棉打手间隙下降并随小车回转作顺序抓取棉纤维，被抓取的棉纤维束经输棉管道送至下一台设备。

Introduction of product

JWF 1007 disk plucker is an important machine in the blowing-carding line. It is applicable for various kinds of pure cotton, cotton type chemical fiber and medium & long chemical fiber. Generally a blowing-carding line is equipped with two sets of disk pluckers. Plucking beater goes down interval and rotates with the carriage to pluck the material in sequence. Material plucked is transported to the next machine via duct.

主要技术参数

The main technical parameters

产量 production	800kg/h
堆放棉包重量 loading capacity	4200kg(2 台)(2 sets)
外圈墙板直径 outer wall diameter	φ4760mm
内圈墙板直径 inner wall diameter	φ1300mm
小车回转速度 speed of carriage	1.6~2.2r/min
打手转速 beater speed	740r/min
刀片伸出肋条距离 blade extension from grid	2.5~7.5mm
地轨外径 rail diameter	φ5123mm
出棉管中心高度 height	3864mm
全机功率 power	4.1kW
全机净重 net weight	约 about 1600kg

2.2 开棉机

2.2.1 JWF1107/JWF1109 型单轴流开棉机

2.2.1 SINGLE ROLLER CLEANER



图 2.2.1 JWF1107 型单轴流开棉机

产品介绍

JWF1107/JWF1109 型单轴流开棉机适用于各种等级的原棉的处理，是一台高效的预清设备。进入本机的原料，经排除微尘后，在自由状态下经受多次均匀、柔和的弹打，使之得到充分开松，在开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。

Introduction of product

JWF1107/JWF1109 Single Roller Cleaner is an efficient pre-process cleaner, applicable for various kinds of raw cotton. Material inside is opened sufficiently after repetitive flexible and gentle beat. During opening, impurities are separated from the material. Material opened and purified is transported to the next process via the transporting duct.

主要技术参数

The main technical parameters

机型 Type	JWF1107	JWF1109
产量 Production	1200 Kg/h	1800 Kg/h
工作宽度 Working width	1600 mm	
角钉打手直径 Beater diameter	Φ750 mm	
角钉打手 Beater	皮带轮或变频调速 Control by pulley or inverter	
角钉数量 Brads number	152	216
装机功率 Installed power	11 kw	
外形尺寸 (长 X 宽 X 高) Overall dimension(LXWXH)	2300X1150X1950 mm 若加管道高度为 2450mm/Added tuft :overall height2450mm	
机器净重 Net weight	1500 kg	
导流板圈数 Flow guide plate circle number	7.5	5.5

产品特点

- (1) 无握持开松，不损伤纤维；
- (2) V 形角钉富有弹性，开松柔和充分，除杂效率高；
- (3) 打手调速可通过变换皮带轮或变频实现；
- (4) 尘棒隔距可手动调节，满足不同的工艺要求；
- (5) 可供选择的间歇或连续式吸落棉装置；
- (6) 特殊设计进出棉及排风结构，提高排杂效果。

Product features

- (1) Opening free of holding ensuring less fiber damage
- (2) Elastic V shape spiker ensure soft and full opening, and high impurity removal efficiency.
- (3) Beater speed adjustment is realized by changing the pulley or frequency conversion.
- (4) The dust bar spacing can be manually adjusted to meet different process requirements.
- (5) Optional intermittent or continuous noil suction device;
- (6) Specially designed cotton inlet/outlet and air exhaust structure improve the dust exclusion effect.

2.2.2 JWF1111 型轴流开棉机

2.2.2 SINGLE ROLLER CLEANER



图 2.2.2 JWF1111 型轴流开棉机

产品介绍

为满足清梳联纺机采棉高产量、高除杂效率的市场需求，青岛宏大经过多年潜心研究，自主创新，开发出了全新概念的并联式轴流开棉机。在最高 3000kg/h 产量的情况下，该机型能够确保充分的开松度及高效的除杂效率，突破了传统清梳联工艺原理，进一步提高了开棉工序在清梳联流程中早落少碎的工艺效果，目前该机型已经申请了国家发明专利。

Introduction of product

In order to meet the market demand of high cotton production and high impurity removal efficiency for Blowroom & card production line, Qingdao Hongda has developed a new concept parallel axial flow cotton opener after years of research and independent innovation. Under the condition of up to 3000 kg/h output, the machine can ensure full opening and high efficiency of removing impurity, which break through the traditional carding process principle, and further improve the process effect of early dropping and less crushing in the cotton opening process. This type of machine has applied for a national invention patent at present.

主要技术参数

The main technical parameters

工作宽度 working width	1600mm
打手数量 beater number	2 piece
角钉打手直径 spiked beater diameter	φ750mm
角钉打手转速 spiked beater speed	360~1000r/min
装机功率 power installed	22kW
外形尺寸 (L×W×H) dimension	2390×2210×1970
机器净重 machine net weight	3000kg

产品特点

- (1) 开棉产量高，最高可达 3000kg/h;
- (2) 纤维损伤少，无握持开松，自由打击;
- (3) 开松柔和，V 形角钉富有弹性;
- 除杂效率高，开松除杂机构并联设计，(4) 传承经典单轴流开松除杂原理;
- (5) 棉流输送通畅，进出棉通道并联设计;
- (6) 排尘、排杂效果好，免维护，排尘、排杂结构一体化设计;
- (7) 工艺调整方便，打手速度、尘棒隔距在线可调;

Product features

- (1) High cotton opening output-up to 3000kg/h;
- (2) Opening free of holding and free beating ensuring less fiber damage;
- (3) Soft opening due to elastic V- shape spike;
- (4) High efficiency of removing impurity; parallel design of opening-impurity removal mechanism, inheriting the classical opening-impurity removal principle of uniaxial flow opener;
- (5) Unobstructed cotton flow duct and parallel design of cotton entry/exit channel;
- (6) Better dust and impurity removal efficiency, free of maintenance, integrated designed dust and impurity removal mechanism;
- (7) Convenient technology adjustment, beater speed and bar gauge adjustable on line.

2.3 混棉机

2.3.1 JWF1027 系列多仓混棉机

2.3.1 SERIES MULTI-MIXER



图 2.3.1 JWF1027 系列多仓混棉机

产品介绍

本机适用于棉、化纤及其混纺的混合。原料喂入本机后，在气流的作用下，被均匀的吹入各棉仓，形成气流混合。通过各仓隔底部输出罗拉的不同输出速度，实现差速混合。同时，较大的储棉量有利于后续设备稳定供棉。

Introduction of product

This machine is suitable for cotton, chemical fiber and its blends. Under the action of airflow, material entered into this machine is uniformly blown to each compartment to form air stream mixing. The different speed mixing of JWF1027 is realized through the different output speed of each roller at the bottom of every compartment. Meanwhile large cotton storage capacity is conducive to the stable cotton supply of the follow-up equipment.

主要技术参数

The main technical parameters

机型 type	JWF1027-4	JWF1027-6	JWF1027-8
储棉仓数量 quantity of cotton storage compartment	4	6	8
适用原料 suited material	纯棉、化纤及混纺 pure cotton ,chemical fiber and blends		
产量 production	600 kg/h	800 kg/h	1200 kg/h
工作宽度 working width	1200mm		
装机功率 installed power	8.15 kW	12.6 kW	14.4 kW
给棉罗拉直径 feed roller diameter	φ180mm		
给棉罗拉转速 feed roller speed	变频调速 speed controlled by inverter		
打手直径 beater diameter	φ330mm		
打手转速 beater speed	450, 504, 546 r/min		
外形尺寸 (L×W×H) overall dimension	2500×1640×4200mm	4000×1640×4200mm	5000×1640×4200mm
重量 weight	3000 kg	4000 kg	5000kg

产品特点

- (1) 原料通过 S 型管道喂入，落棉均匀、顺畅。
- (2) 储棉量大，每个仓储棉量约 100kg。
- (3) 产量高，最高可达 1200kg / h。
- (4) 机器结构简单，故障点少，更高的稳定可靠性。
- (5) 占地面积小。

Product features

- (1)Raw material being fed to the compartment via S type pipe to make cotton drop uniform and smooth.
- (2)Large cotton storage capacity with about 100kg in each compartment.
- (3)High production up to 1200kg/h.
- (4)Simple machine structure with fewer fault point and higher reliability.
- (5)Little area occupation.

2.3.2 JWF1029/JWF1031 系列多仓混棉机 2.3.2 SERIES MULTI-MIXER



图 2.3.2 JWF1031 多仓混棉机

产品介绍

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，形成气流混合；各仓纤维层经 90 度转弯输送，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。

Introduction of product

The machine is used for blending cotton chemical fiber or blends. After fiber is fed into the machine, the airflow blows it every hopper evenly to form an airflow blending. The fiber in every hopper is conveyed in a 90 turn, achieving the and-round blending due to the distance difference. The excessive fiber is thrown into the blending room to attain mixture.

主要技术参数

The main technical parameters

机型 type	JWF1029	JWF1029-160	JWF1031	JWF1031-160
仓数 hoppers	6	6	8	8
产量 production	800kg/h	1000 kg/h	900 kg/h	1100 kg/h
工作宽度 working width	1200mm	1600mm	1200mm	1600mm
角钉帘线速度 linear speed of spike lattice	13.5~40m/min (变频调速 speed controlled by inverter)		23.2~129 m/min (变频调速 speed controlled by inverter)	
输送带线速度 liner speed of conveyor	0.08~1.18 m/min (变频调速 speed controlled by inverter)		0.06~0.56 m/min (变频调速 speed controlled by inverter)	
均棉罗拉转速 speed of the evener roller	462r/min			
剥棉罗拉转速 speed of the stripping roller	557r/min			
装机功率 installed power	7.49kW	10.55 kW	11.35 kW(包括输入、输出棉风机 include input fan, output fan)	
外形尺寸 (L×W×H) overall dimension	6787×1618×4122mm	6787×2018×4122mm	7305×1600×4124mm	7305×2000×4124mm
机器净重 net weight	约 about 5800kg	约 about 6300kg	约 about 6000kg	约 about 6500kg

产品特点

强化的三重混合作用，实现原料的均匀混合；6 或 8 个混棉仓使混棉更充分，储棉量更大；角钉帘输送原棉采用智能 PD 控制方式，供棉均匀、稳定、不间断；平帘实行变频调速，有利于系统连续喂棉的控制；整机采用智能启动、运行的控制方式，入口风机由本机控制，有利于节能降耗；棉仓压力自动检测，智能控制、调节抓包机的输棉量。

Product features

The tripartite blending ensures the uniform mixing of the material. The structure of six or eight hoppers makes the mixing evener and storage capacity bigger. Cotton transportation by the spiked lattice is controlled by the intellectual PID ensuring the even, stable and continuous cotton supply. The speed of the feeding lattice is controlled by the inverter, favorable for controlling the continuous feeding of the system. The whole machine is intellectually started and operated. The entrance fan is controlled by the machine itself, favorable for energy conservation. The pressure in the hoppers is automatically detected, thus adjusting the plucking amount of the plucker.

2.3.3 JWF1033 型多仓混棉机 2.3.3 SERIES MULTI-MIXER



图 2.3.3 JWF1033 型多仓混棉机

产品介绍

该机要用于清梳联流程中“抓、开、混、清”工序中的混棉工序，其作用是将原料进行均匀混合，使单位重量的原料所含有的不同成分组份相等，消除因原料混合不均匀引起后工序的纱线色差和强度不匀，同时该机又是系统流程中的储棉设备，较大的储棉量有利于后续设备供棉稳定和前工序短时间停车处理各种故障。

Introduction of product

This machine is mainly used for mixing in plucking, opening, mixing scotching process in blowroom. Whose function is to mix material evenly to make the components with different ingredients contained in material in one unit weight equal and eliminate yarn chromatic difference and tenacity irregularity due to uneven mixing. Meanwhile this machine is cotton deposit equipment in blowroom, whose big cotton storage is favorable of continuous and stable cotton supply to followed machine and previous machine stop in short time for handling each fault.

主要技术参数

The main technical parameters

适用原料 material suited	76mm 以下纯棉或化纤 pure cotton or chemical fibre below 76 mm
产量 production	2000kg/h
抓棉宽度 plucking width	2300mm
棉包最大高度 the maximum bale height	1.6m
吸槽长度 Suction slot length	16~50m
打手转速 beater speed	变频调速 speed controlled by inverter
打手下降深度 beater descending speed	0.1~20mm
刀片数量 blade number	22PSC
整机总功率 total power installed	11.92kW
打手驱动功率 beater driven power	8kW

产品特点

- (1) 8 个混棉仓使混棉更充分，储棉量 400—450kg/h，有利于后续设备供棉稳定；
- (2) 直线喂入棉流阻力小，喂入更顺畅；
- (3) 入棉管道配均匀配棉装置，有利于横向喂棉均匀；
- (4) 强化的三重混合作用，实现原料的均匀混合；
- (5) 出棉口设置重物排杂装置，有利于排除大的杂质或夹在棉块中的纱管；
- (6) 角钉帘、平帘采用变频调速，有利于供棉均匀、稳定、不间断；
- (7) 棉仓压力自动检测，智能控制、调节抓包机的供棉量。

Product features

- (1) 8 bins with 400-450kg/h cotton storage can mix cotton more full and favorable of stable cotton supply to the followed machine.
- (2) Linear feed with little current resistance ensure more smooth feed.
- (3) Cotton entrance duct is fit with cotton evening distributing unit favorable of even cotton feed in transverse direction.
- (4) Strengthened triple-mixing effects realizes even material mixing.
- (5) The weight separator designed in the cotton exit is favorable of excluding big trash or tube hidden in cotton cluster.
- (6) Speed of spiker lattice and belt is controlled inverter favorable of uniform, stable and uninterrupted cotton supply.
- (7) Pressure inside bin is automatically detected and cotton supply from plucker is smart controlled and adjusted.

2.4 清棉机

2.4.1 JWF1115 系列精开棉机

2.4.1 SERIES OPENERS



图 2.4.1 JWF1115 系列精开棉机

产品介绍

经过初步开松的原棉及化纤作进一步的开松、分梳及除杂。

Introduction of product

This machine is part of the scutching and blowing line, whose function is to further open and clean the cotton or chemical fiber which has been preliminarily opened.

主要技术参数

The main technical parameters

机型 Type	JWF1115	JWF1115-160
产量 Output	800 kg/h	1100 kg/h
适用原料 Suitable material	76mm 以下的天然和人造纤维 Natural and manmade fiber in length less than 76mm	
工作幅宽 Working width	1060 mm	1600 mm
给棉罗拉转速 Feed roller speed	18~85 r/min	
梳针打手转速 Gill beater speed	520、750、850 r/min 可选配变频 /Option:inverter	
装机功率 Installed power	3.55 kw	5.1 kw
外形尺寸 (长 X 宽 X 高) Overall dimension(LXWXH)	1560X1520X2870 mm	2100X1520X2870 mm

产品特点

该机由上棉箱部件、给棉部件、打手部件、尘棒调节件、机架部件组成。在清花工艺流程中与立式纤维分离器配合使用，其梳针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，分离出来的尘杂送入滤尘系统。

Product features

This machine is made up of the upper chute unit, the beater unit, the grid bar adjusting unit and the frame unit. It is used together with the vertical fiber separator in the blowing process. Its gill beater, running at a certain speed excludes the trash via the mutual functions of the centrifugal force and the grid bars. Fully opened and cleaned material is sent to the next process and the trash excluded is sent to the dust filtering system.

2.4.2 JWF1125 型精清棉机

2.4.2 FINE CLEANER



图 2.4.2. JWF1125 型精清棉机

产品介绍

该机适用于将各种等级的原棉、棉型化纤和 76mm 以下的中长纤维作进一步的开松和除杂，供下道工序使用。

Introduction of product

This machine is applicable for the further opening and cleaning of various kinds of raw cotton, cotton type chemical fiber and long and medium fiber below 76mm for the next process.

主要技术参数

The main technical parameters

工作幅宽 Working width	1600 mm
最高产量 The Max. production	1500 kg/h
打手形式 Beater type	梳针打手 /Gill beater
打手直径 Beater diameter	400 mm
打手转速 Beater speed	610/750/870 r/min 或变频调速 /Speed controlled by inverter500~1000
上 / 下给棉罗拉直径 Upper/Lower feed roller dia.	300/120 mm
分梳板 / 除尘刀 / 调节板数量 Amount of Carding Segment/Mote knife/Adjustment	2/ 3/ 2 个 /piece
装机功率 Installed power	6.2 kw
外形尺寸 (长 X 宽 X 高) Overall dimension(LXWXH)	2100X1550X4055 mm

产品特点

除杂机构采用除尘刀、分梳板以及舌形板结构，调整方便，除杂效率高；棉箱一侧网眼板整体可调，方便调整棉箱下端喂棉厚度，适应不同的原料喂入；给棉罗拉采用机械保护限位及电气保护限位双重保护，提高设备运行可靠性；先进的预充满功能，保证系统刚开车时的稳定性。

Product features

The dedusting mechanism adopts carding segment, mote knife, tongue plate structure to ensure convenient adjustment and high dedusting efficiency. One side of meshed plate in chute as an entity is adjustable which can change capacity of lower chute to suit different material feed. Feed roller adopts mechanical position limit and electrical protection limit for double protection to enhance machine operation reliability. Advanced pre-filling full function ensure the stability of the system when start up.

2.4.3 JWF1117 系列主除杂机

2.4.3 EANERJWF1117

产品介绍

JWF1117 系列主除杂机与 FA179 系列喂棉箱组合，适用于处理各种等级的原棉或精梳短毛，纤维在本机内经过初步开松后进一步通过针布梳理把纤维梳理成单纤维状，并将杂质从纤维内部剥离出来，杂质通过自动吸尘系统吸入滤尘室，纤维通过输棉管道送入下一道工序。因此，当纤维通过主除杂机加工后，已是基本清洁和充分开松的状态。

Introduction of product

JWF1117 Master cleaner and FA179 chute feeder are used as a group to process various kinds of raw cotton and wool noil. After initial opening, the fibre is further carded by the clothing into single fiber. Impurities are removed from fibers through the automatic suction system. Fibers are sent to the next process through the transporting channel. The material processed by FA116 master cleaner is basically clean and fully opened.

主要技术参数

The main technical parameters

机型 Type		JWF1117	JWF1117-165
高度 Height		4170 mm	4170 mm
宽度 Width		1876 mm	2276 mm
长度 C LengthC	关闭时 (c) Closed(c)	1200 mm	1300 mm
	打开时 Open	2360 mm	2460 mm
工作宽度 Working Width	配棉头 Distribution Head	1150 mm	1550 mm
	中间棉箱 Reserve Silo	1200 mm	1600 mm
	下分梳部件 Down Segment Unit	1250 mm	1650 mm
产量 Production		700 kg/h	900 kg/h
装机功率 Installed power		11.618 9.618 13.818 kw	
A		600 mm	700 mm
B		Φ250 mm	Φ300 mm
滤尘要求 Suction Volume 排风量 Air Volume	排风口压力 Static Pressure	-750 Pa	
		4300 m ³ /h	
机器净重 Net weight		4500 kg	5000 kg

产品特点

- (1) 除杂效率高，纤维损伤少；
- 装有金属探测装置及喂棉过厚保护措施，可防止损伤针布；
- (2) 给棉辊，转移辊及分梳辊均采用变频调速；
- (3) 机上装有安全防护装置；
- (4) 输棉通道三处设有压力自动检测，一旦异常，机器自动停车；
- (5) 采用连续吸，尘杂自动吸入滤尘室；
- (6) 三辊筒盖罩采用开放式结构，检修维护非常方便；
- (7) 三辊筒均包覆专用金属针布；
- (8) PLC 控制，自动检测。

Product features

- (1) It has high cleaning efficiency, with low fiber damage.
- (2) The metal detecting device and the over-thickness protection measure avoid the possible damages of the wire.
- (3) Two feeding rollers and the big carding roller are controlled by the inverter.
- (4) It is equipped with the protection device.
- (5) Pressure needed inside the transporting channel is automatically detected in three different positions. Once it is abnormal, the machine stops automatically.
- (6) Impurities are continuously sucked into the filtering chamber.
- (7) The covers of these three rollers can be opened for easy maintenance, These three rollers are clothed with special metallic wire.
- (8) It is controlled by the PLC, realizing automatic monitoring.

2.5 梳棉机

2.5 CARDING MACHINE



图 2.5.1 JWF1211A 型梳棉机



图 2.5.2 JWF1213 型梳棉机

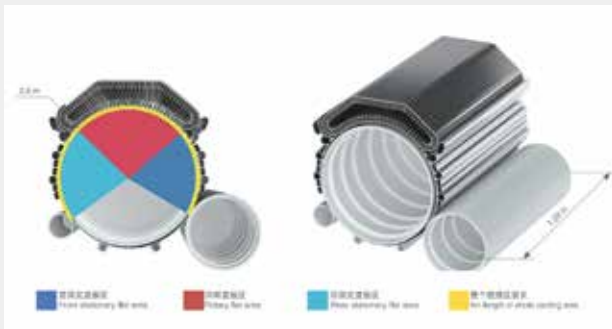


图 2.5.2.1 高产高效的分梳系统



图 2.5.2.2 最佳的原料利用率



图 2.5.2.3 高效的盖板清洁单元

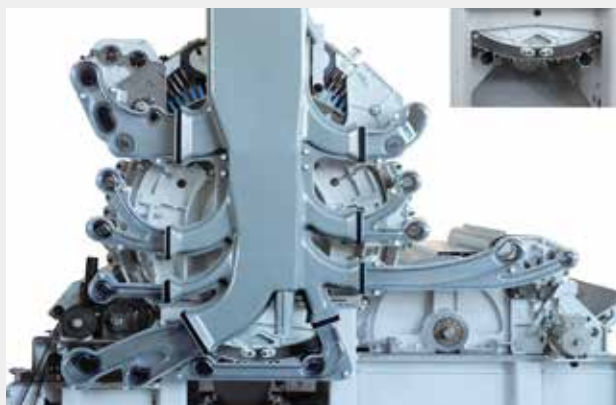


图 2.5.2.4 滤尘系统



图 2.5.2.5 模块化设计 — 操作方便 维护快捷

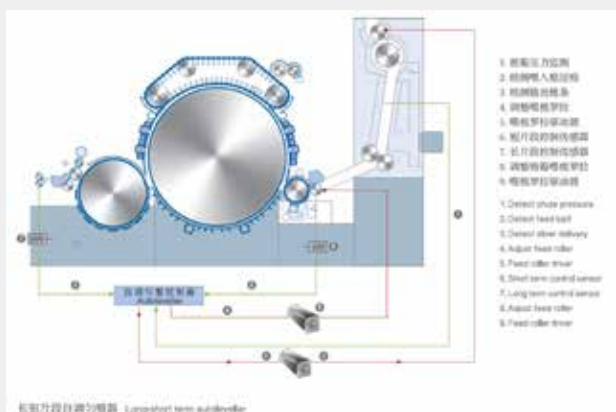


图 2.5.2.6 新型混合环自调匀整系统



图 2.5.2.7 新型一体化棉箱

主要技术参数

The main technical parameters

机型 Type	JWF1211A		JWF1213
使用范围 Application	适用于纤维长度 22~76 毫米的纯棉、化纤及其混纺 Application Applicable to chemical fiber, pure cotton in length from 22-76mm and other blended material.		
最高产量 Max. Actual output	100(kg/h)		160(kg/h)
最高出条速度 Max.Sliver delivery speed	300(m/min)		320(m/min)
棉条定量 Sliver count	3~7 (g/m)		3.5~10 (g/m)
喂棉重量 Feed weight	400~1000(g/m)		400~1300(g/m)
工作幅宽 Working width	1000(mm)		1280(mm)
总牵伸倍数 Total draft folds	60~300		38~370
刺辊工作直径 Licker-in working diameter	Ø250(mm)		Ø250(mm)
道夫工作直径 Doffer working diameter	Ø706(mm)		Ø706(mm)
道夫工作速度 Doffer working speed	4.3~84(rpm)		4.3~84(rpm)
锡林工作直径 Cylinder working diameter	Ø1288 (mm)		Ø1288 (mm)
锡林工作速度 Cylinder working speed	347~477(rpm)		347~477(rpm)
回转盖板根数 (工作盖板 / 盖板总数) Pieces of rotary flats (working flat/total flats)	30/84		30/84
盖板速度 Flat speed	70~408(mm/min)		70~408(mm/min)
附加梳理件 Attached carding segments	刺辊分梳板 Licker-in carding segment	2 根 2 pieces	2 根 2 pieces
	前固定盖板 Front stationery flats	8 根 8 pieces	8 根 8 pieces
	后固定盖板 Back stationery flats	10 根 10 pieces	10 根 10 pieces
棉网清洁器 Web cleaner	前 3 后 3 Front 3, Back 3	纺棉 Cotton	纺棉 Cotton
	前 2 后 2 Front 2, Back 2	纺化纤 Chemical fiber	纺化纤 Chemical fiber
连续吸尘风量 Continuous air suction volume	4000(m³/h)		4200(m³/h)
出口静压 (帕) Statistic pressure at exit	-800(pa)		-800(pa)
压缩空气压力 Compressed air pressure	6~7(kg/cm²)		6~7(kg/cm²)
空气消耗 Compressed air consumption	0.5(m³/h)		0.5(m³/h)
总装机功率 Total power installation	9.24(KW)		13.79(KW)
安全罩形式 Safety cover type	全封闭 Totally enclosed		全封闭 Totally enclosed
占地面积 (长 x 宽 x 高)(1000) Land occupation (L × W × H)	5825x2480x3525(mm)		5825x2480x3720(mm)
机器净重 Machine net weight	约 7200(kg) About 7200(kg)		约 8000(kg) About 7200(kg)
喂棉箱 Chute feeder	JWF1173A		JWF1177
给棉罗拉直径 Feeding roller dia.	Ø172(mm)		Ø172(mm)
开松辊直径 Opening roller dia.	Ø292(mm)		Ø292(mm)
功率 Installed power	2.05(kw)		3.4(kw)

产品特点

(1) 产量更高：梳理区面积增加及精确的梳理隔距是
高产优质成纱质量的基础

(2) 最佳的原料利用率：刺辊落杂区可调，盖板速度
可调，确保最佳原料利用率。

(3) 模块化设计：可根据不同原料、双联固定盖板、
棉网清洁器、铝合金置板可以进行不同的组合和配置，拆
装灵活，排杂效果好。

(4) 新型盖板清洁及传动系统：刷辊采用单独电机 +
变频，无级调速，根据适纺品种的不同设定相应速度，保
证盖板清洁。刷辊与回转盖板采用可调式隔距设计，
实现回转盖板的深度清洁。

(5) 占地面积小。

Product features

(1) HIGHER YIELD: The increase of carding area and the precise
carding gauge ensure higher production and better quality.

(2) TLEST CONSUMPTION OF RAW MATERIAL: The adjustable
licker-in drop length, the inverter drive revolving flat and the directional
feeding design ensure the lest consumption of raw material.

(3) MODULAR DESIGN: Tandem stationery flat, web cleaner, Al-
alloy sheet can be configurated and fit in different group according
to material, featured by flexible mantling and dismantling. good trash
excluding efficiency.

(4) NEW TYPE FLAT CLEANING AND DRIVING SYSTEM: Brush
roller adopts the Independent motor and inverter. The step-less speed
adjustment ensures the flats cleanness by setting different speeds
according to materials.

The gauge adjustable design of the brush roller and the revolving flats
ensures the deep cleaning of the revolving falts.

沈阳宏大纺织机械有限责任公司

Shenyang grand textile machinery Co., LTD.

公司名称：沈阳宏大纺织机械有限责任公司

Company Name: Shenyang grand textile machinery Co., LTD.

产品领域：纺织机械

沈阳宏大纺织机械有限责任公司隶属于中国恒天集团有限公司下属的经纬纺织机械股份有限公司。公司于1999年通过ISO-9001质量体系认证，并通过了高新技术企业认定。公司设有省级技术中心——技术开发部、计量检验处等技术处室，技术力量雄厚。

多年来，公司一直秉承“以人为本、协同、创新、卓越”的管理理念，重视产品升级换代，不断提高技术装备力量，增强工艺制造能力。公司产品主要是棉纺并条机系列，覆盖高、中、低档需求，远销世界30多个国家和地区，在国内外广大用户中享有盛誉。

Product field: textile machinery

Shenyang grand textile machinery Co., LTD belongs to the Chinese HENGtian group limited company subordinates JINGWEI textile machinery Co., LTD. The company in 1999 through ISO9001 quality system authentication, passed the high-tech enterprise identification. The company has technical center of provincial level - technology development, measuring inspection place technology such as the office, equipped with abundant strength.

For many years, the company has been adhering to the "people-centered, coordination, innovation and excellence" management concept, emphasis on product upgrading, continuously improve the technology and equipment power, enhance process manufacturing capabilities. Our company main products are cotton drawing frames series. over the past years, our products have been selling well more than 30 countries and zones. It enjoys a high reputation among users at home and abroad.

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1 JWF1316/JWF1316^T 型匀整并条机

1 JWF1316/JWF1316^T AUTOLEVELLER DRAWFRAME



JWF1316/JWF1316^T 型匀整并条机
JWF1316/JWF1316^T AUTOLEVELLER DRAWFRAME

主要业绩

JWF1316/JWF1316^T 为我公司新一代单 / 双机组匀整并条机。低投入、低能耗、低空间，高产量、高质量、高效率是该系列机型的设计根本。双机组各个系统均为独立控制，拥有多项专利技术。该系列机型，制造精度高，技术水平和稳定性良好。是先进水平的高端匀整并条机。

Main achievements

JWF1316/JWF1316^T is our newest single or combined-heads autoleveller drawframe. We design it with the aim of low input, low energy consumption, low space, high yield, high quality and high efficiency. Each system of the combined-heads is independent control. Have a number of patented technologies. This series draw frames with high manufacturing precision, advanced technical level level and stability is the advanced level of high-end autoleveller draw frame.

2 JWF1313 型并条机

2 JWF1313 DRAWFRAME



JWF1313 型并条机
JWF1313 DRAWFRAME

主要业绩

JWF1313 型智能并条机是沈阳宏大新一代的非匀整并条机，创新的传动形式及电子牵伸、输出直径 1000mm 大条筒、智能断条、罗拉监控、独立吸风区等功能的使用使该机能够以小的投入成本为用户创造出超值的效益。

Main achievements

JWF1313 smart draw frame without autoleveller is our new generation. The use of innovative driving form, electronic drafting, output diameter 1000mm, intelligent breaking device, roller monitoring, suction etc. functions make the machine be able to reduce the cost for the user to create super value benefits.

3 JWF1312B 型匀整并条机

3 JWF1312B AUTOLEVELLER DRAWFRAME



JWF1312B 型匀整并条机
JWF1312B AUTOLEVELLER DRAWFRAME

主要业绩

JWF1312B 并条机总结了 FA326A 系列并条机近千台用户装机使用经验，深入生产实践，结合现代纺织技术新工艺要求而开发的一款适应范围广泛的短片段双眼匀整并条机，该机开发主要目的是在提高出条速度的同时实现纤维无弯钩、无褶皱的理想牵伸状态，以适应纺织工艺发展的高质量要求。

本机适用于 22 ~ 76mm 长的棉、棉型化纤及中长纤维的纯纺与混纺，可用于某些品种精梳之后单道并合，同时亦可广泛用于各品种纺纱的末道或头道并合，对改善条子重量不匀率有明显效果，从而最终优化成纱指标。

JWF1312B 并条机是目前国产双眼匀整机器技术更加成熟的新机型，尤其体现在纺制精梳品种，高质量、占地面积少及保养成本低等几个方面，与进口同类产品相比在其性价比上占有明显的优势，可以满足各种纺纱条件的需要，是理想的可普及产品。

Main achievements

Draw frame JWF1312B is draw frame with 2 deliveries and auto leveller in the course of design, the product experiences of approximate one thousand draw frame FA326A and new process of modern textile technology are used in it. The main design purpose is to improve the delivery speed and the sliver quality, and suit for the further requirement of the textile technology developing.

The machine is suitable for 22~76mm cotton, cotton fiber, mid length fiber and their blends. It can be used for single doubling some fiber after combing, and widely used for first or last doubling passage for different kinds of fiber.

The kind of draw frame is more mature new type of machine with 2 deliveries at present. Especially for processing combed fiber, less floor space and low maintenance cost. It has higher quality and price compared with the same kind of import. It can meet the requirement of all kinds fiber. It is the ideal product used broadly.

4 JWF1310 系列并条机

4 JWF1310 DRAWFRAME



JWF1310 系列并条机
JWF1310 DRAWFRAME

主要业绩

JWF1310 系列并条机，是我公司为适应新的棉纺工艺发展形势，以 3 万余台 FA306A 型并条机市场经验为基础，进一步优化发展而开发的一款双眼高速并条机。本机在设计上继承了 FA306A 系列并条机稳定、可靠的优点，并结合新工艺，新技术，新加工手段，提高了主机的高速适应性，各项指标进一步提高。本机适用于 80mm 以下的棉，棉型化纤及中长化纤的纯纺与混纺，相较于国内外同类型产品，在性价比上有明显优势。

Main achievements

JWF1310 series draw frame is a double-delivery high-speed draw frame developed by our company in order to adapt to the new cotton spinning process development situation, based on the market experience of more than 30,000 FA306A drawing frame, and further optimize the development. This machine has inherited the advantages of FA306A series drawing frame, such as stability and reliability. Combining with new process, new technology and new processing means, it improves the high speed adaptability of the main frame and further improves the indexes. This machine is suitable for pure spinning and blending of cotton, cotton chemical fiber medium-log chemical fiber under 80mm. Compared with similar products at home and abroad, it has obvious advantages in cost performance.

5 G1201C 整经机

5 G1201C WARPING MACHINE



G1201C 整经机
G1201C WARPING MACHINE

主要业绩

G1201C 整经机是适应市场需求而研制的性价比较高的机型。集体缩小副墙板，外围罩壳采用钢板结构，更加便于维修。取消独立的电控柜，使可编程控制器和人机界面的通讯更为顺畅。全自动挡风板，固定安全杆。点动寸行按钮，既保护人身安全，又便于操作。

主轴可以与各种经轴配合适用，经轴具有坚固的支撑机构和安全保险装置，特有的安全气缸可有效的防止在突然断气时主轴后移导致经轴脱落事故的发生。

Main achievements

G1201C warping machine is a kind of high performance and price ratio machine developed to meet the market demand. Collective reduction of secondary wall panels, outer shell with steel plate structure, more convenient for maintenance. Cancel the independent electronic control cabinet, make the communication between programmable controller and man-machine interface more smooth. Automatic windshield, fixed safety rod. Click an inch line button, both to protect personal safety, but also easy to operate.

The main shaft can be used with all kinds of warp shaft. The shaft has strong supporting mechanism and safety device. The special safety cylinder can effectively prevent the accident of the shaft falling off when the spindle moves backward when the air is suddenly cut off.

天津宏大纺织科技有限公司

Tianjin Hongda Textile Machinery Co.,Ltd.

公司名称：天津宏大纺织科技有限公司

Company Name: Tianjin Hongda Textile Machinery Co.,Ltd.

产品领域：纺织机械

公司坐落于天津滨海高新技术产业开发区，其前身是创建于 1946 年有着“中国粗纱机摇篮”美誉的天津纺织机械厂。公司是棉纺设备的知名生产企业，专注于粗纱机及粗细联输送系统的研发制造，引领国内粗纱机的发展方向。

公司是国家高新技术企业，通过 ISO9001:2015 质量体系认证，拥有从美国、日本、德国、瑞士、意大利等国家引进的成套数控设备、三坐标测量仪、静电喷涂生产线等先进设备 40 余台套。拥有有效专利 37 件，其中，发明专利 24 件，粗纱机市场占有率在 45% 以上，产品远销 60 多个国家与地区。

Product field: textile machinery

The company is located in tianjin binhai hi-tech industrial development zone, its predecessor is tianjin textile machinery factory which was founded in 1946 with the reputation of "cradle of Chinese roving machine". The company is a well-known manufacturer of cotton spinning equipment, and focus on the development and manufacture of roving machine and roving-spinning united conveying system, which leading the development direction of domestic roving machine.

The company is National High-tech Enterprise, passed iso9001:2015 certification of quality system, and has more than 40 sets of advanced equipment such as whole set of numerical control equipment, coordinate measuring instrument and electrostatic spraying production line introduced from the United States, Japan, Germany, Switzerland, Italy and other countries. The company has 37 valid patents, in which there are 24 invention patents. Roving machine market share in 45% above. Products are exported to more than 60 countries and regions.

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1 粗纱机

1 Fly frame



图 1—JWF1416 型粗纱机

产品介绍

本机适用于普梳和精梳棉纤维，以及 65 毫米以下化学纤维的纯纺或混纺。在纺纱过程中，将精并后的熟条加工成不同支数和不同捻度的粗纱。

Introduction of product

The fly frame is used for processing roving for ring spinners with slivers of cotton from carding, combing and drawing, or with slivers of man-made fibre and their blends having a fiber length less than 65mm. Roving of various counts or twists can be processed on this machine.

主要业绩

- (1)FA401 型粗纱机为国内首台悬锭粗纱机，获国家“七五”科技攻关重大成果奖。
- (2)FA481 型粗纱机为国内首台计算机控制的悬锭粗纱机，2011 年国家重点新产品。
- (3)FA491 型粗纱机为国内首台四电机分部传动粗纱机，是 2011 年国家重点技术创新项目，获 2003 年天津市科技进步二等奖，2004 年国家重点新产品。
- (4)JWF1416 型粗纱机是中国纺织工业协会“十一五”纺织行业推广技术项目。

Main achievements

- (1)FA401 type roving frame is the first suspension roving frame in China, acquired award of National "seven five" major achievements in science and technology.
- (2)FA481 typ roving machine is the first computer controlled suspension roving machine in China, acquired award of National key new products in 2011.
- (3)FA491 type roving machine is the first four-motor segment driving roving machine in China, acquired award of National key technological innovation projects in 2011, and Second prize for Tianjin scientific and technological progress in 2003, and National key new products in 2004.
- (4)JWF1416 type roving frame is the "11th five-year" textile industry promotion technology project of China textile industry association.

主要技术参数

The main technical parameters

锭距 (mm) Spindle gauge(mm)	216	185
锭数 Nos.of spindle	108,120,132,144,156,168	108,120,132,148,160
成型尺寸 (mm) Full package(mm)	Φ152 x 400	Φ132 x 400
牵伸倍数 (倍) Drafting range(Times)	4.2 ~ 12	
捻度范围 (捻 / 米) Twist range(T/M)	18 ~ 100	
适纺线密度 (Tex) Adaptable Counts	200 ~ 1000(Nm 5 ~ 1) 200 ~ 1000(Nm 5 ~ 1)	
适纺纤维长度 (mm) Spinning staple(mm)	22 ~ 65	
锭翼形式 Flier form	悬锭 (上锭杆) Suspended (up spindle blade)	
牵伸形式 Drafting system	三罗拉或四罗拉 3-roller or 4-rolle	
纺纱转速 (转 / 分) Spinning speed (rpm)	1300	
机器手向 Orientation	左、右手 R or L hand	
清洁装置 Cleaner	上、下积极回转绒带, 巡回式吹吸风装置 Upper and bottom positive intermittent revolving cloth and traveling cleaner	
条筒直径 (mm) Dia.of can(mm)	Φ400 或 Φ500 Φ400 or Φ500	

产品特点

- (1) 四电机同步控制, 实现恒张力纺纱。
- (2) 控制系统采用四合一集成控制, 系统稳定可靠。
- (3) 精确定长。满纱定长定位停车, 最后一层粗纱提前换向, 保证每落粗纱长度误差小于 1 米, 节约原材料。
- (4) 多段速纺纱, 纺纱速度在显示屏可设。保证小纱时纱管平稳运行、防止跳管; 大纱时保证粗纱离心力恒定纺纱, 减少粗纱断头。
- (5) 满纱机器控制自动拉断头功能, 适用于弱捻品种, 减少挡车工的工作量, 提高效率。
- (6) 具有断电保护功能, 有效地预防突然断电停车全车断头问题。
- (7) 故障在线检测, 自动存储故障记录, 停车记录。
- (8) 粗纱机台联网, 远程集中控制, 方便高效集中管理。

Product features

- (1) 4 motor synchronous control for constant tension spinning.
- (2) The control system adopts four-in-one integrated control, so the system is stable and reliable.
- (3) Definitely long. The full length of yarn to locate parking, the last layer of gauze ahead of time to ensure that the length of each gauze error is less than 1 meter, saving raw materials.
- (4) Ensure the smooth operation of the initial roving bobbin to prevent the bobbin from beating. At the end of the roving spinning, ensure that the roving constant spinning centrifugal force, reduce roving breakage.
- (5) Full yarn machine control automatic pull beheaded function, suitable for weak twist varieties, reduce the workload of machinist, improve efficiency.
- (6) Power-off protection for effectively preventing broken ends in case of sudden outage and shutdown.
- (7) The online fault detection, automatic retention of failure records and shutdown records.
- (8) Implement the roving machine connected to the internet, remote centralized monitoring, convenient and efficient centralized management.

2 自动落纱粗纱机

2 Auto-doffing roving frame



图 2—JWF1458A 型自动落纱粗纱机



图 3—JWF1418A 型自动落纱粗纱机

产品介绍

适用于普梳和精梳棉纤维，以及 51 毫米以下化学纤维的纯纺或混纺。在纺纱过程中，将精并后的熟条加工成不同支数和不同捻度的粗纱。满管后靠机器自身的自动化装置将满管纱取下，并自动放置空管，自动生头。同时该机通过空满管交换装置将满管纱自动交换到粗细联轨道上。

主要业绩

(1) JWF1418A 型自动落纱粗纱机为国内首台自动落纱粗纱机，是国家“十一五”科技支撑计划项目。

(2) JWF1418A 型自动落纱粗纱机获 2011 年中国纺织工业协会科技进步一等奖。



图 4—尾纱清除、尾纱管筛选、空满管交换集成装置

Introduction of product

The fly frame is suitable for processing carded and combed cotton or man-made fibre and their blends up to 51mm. In the spinning process, will be refined and cooked after processing into different branches and different twist of roving. Full tube after the automatic device by the machine itself will be full tube yarn removed, and automatically placed blank pipe, automatic generation. At the same time, the machine is automatically switched to the diameter and thickness of the full pipe by means of the full pipe exchange device.

Main achievements

(1) JWF1418A type automatic doffing roving machine is the first automatic doffing roving machine in China, which is the national "11th five-year" science and technology support project.

(2) JWF1418A type automatic doffing roving machine acquired the first prize of science and technology progress award of China textile industry association in 2011

主要技术参数

The main technical parameters

机型 Model	JWF1458A	JWF1457	JWF1418A
锭距 (mm) Spindle gauge(mm)	216	185	216
锭数 Nos.of spindle	120,132,144,156, 168,180,192,204	140,168,196,224	120,132,144,156
成型尺寸 (mm) Full package(mm)	Φ152 x 400	Φ125 x 400	Φ152 x 400
牵伸倍数 (倍) Drafting range(Times)	4.2 ~ 12		
捻度范围 (捻 / 米) Twist range(T/M)	18 ~ 100		
适纺线密度 (Tex) Adaptable Counts	200 ~ 1000(Nm 5 ~ 1) 200 ~ 1000(Nm 5 ~ 1)		
适纺纤维长度 (mm) Spinning staple(mm)	22 ~ 51		
锭翼形式 Flier form	悬锭 (下锭杆) Suspended (lower spindle blade)		
牵伸形式 Drafting system	三罗拉或四罗拉 3-roller or 4-rolle		
纺纱转速 (转 / 分) Spinning speed (rpm)	1300		
机器手向 Orientation	左、右手 R or L hand		
清洁装置 Cleaner	上、下积极回转绒带, 巡回式吹吸风装置 Upper and bottom positive intermittent revolving cloth and traveling cleaner		
条筒直径 (mm) Dia.of can(mm)	Φ400 或 Φ500 Φ400 or Φ500		
落纱方式 Doffing modes	外置式自动落纱 External automatic doffing system	内置式自动落纱 built-in automatic doffing system	

产品特点

(1) JWF1458A 型自动落纱粗纱机采用外置式自动落纱系统, 实现了从落纱到换管、生头、开车全自动纺纱。

(2) JWF1418A 型自动落纱粗纱机采用内置式自动落纱系统, 发明了粗纱机上从锭翼两侧自动取满纱放空管的落纱形式, 实现了从落纱到换管、生头、开车全自动纺纱。

(3) 国内首家将尾纱清除、尾纱管筛选、空满管交换三个功能在粗纱机上加以集成, 在同一节拍下, 按顺序完成功能, 运行高效。

(4) 下龙筋筒管传动采用分组传动, 12 锭 / 组, 可以实现多锭数粗纱机。采用圆弧齿齿形带传动, 传动平稳, 噪音低。

Product features

(1) JWF1458A adopts external automatic doffing system, invents a new doffing mode that can replace the full-yarn bobbins at both sides of the flyer with empty bobbins, realizing full-automatic spinning that includes doffing, bobbin replacement, Generate thrum and start-up.

(2) JWF1418A uses the built-in automatic doffing system, invents a new doffing mode that can replace the full-yarn bobbins at both sides of the flyer with empty bobbins, realizing full-automatic spinning that includes doffing, bobbin replacement, Generate thrum and start-up.

(3) In China, the first one integrates the three functions of tail yarn clearing, tail yarn bobbin selection, and empty full bobbin exchange into a roving machine. Under the same beat, the function is completed sequentially and the operation is efficient.

(4) The lower spindle rail tube drives the spindles in groups, each group with 12 spindles, allowing multiple spindles to be roved. The circle-arc tooth belt drive is adopted for smooth driving and low noise.

3 JWF9562A 型粗细联输送系统

3 JWF9562A roving-ring link conveying system



图 5—JWF9562A 型粗细联输送系统



图 6—立体纱库

产品介绍

JWF9562A 型粗细联输送系统是指在粗纱和细纱工序间建立一条可实现在线监控、信息采集分析、自动控制和连续输送的空间立体的物流线路，其基本功能是将粗纱空间立体的输送线，将粗纱机落下的满筒粗纱送至满筒纱库，待细纱机发出需求信号后再将满筒粗纱送至细纱机，将细纱机用完的空管送回空管库，待粗纱机发出需求信号后再将空管送至粗纱机，实现粗细联。

Introduction of product

JWF9562A Roving-Ring Link Conveying System is the established between a rovings and spinning process can be realized on-line monitoring, information collection and analysis, automatic control and continuous delivery of threedimensional space logistics lines, its basic function is to rovings three-dimensional space transmission lines, to send the full tube rovings roving machine falling cheese to the full storage, to be issued a demand signal and then spinning the barrel full of rovings sent spinning, spinning run the empty tube back to the empty tube storage, to be roving frame will then issue a demand signal to the empty tube control roving frame, to achieve Roving-Ring Link Conveying System Union.

主要技术参数

The main technical parameters

锭距 (mm) Spindle gauge(mm)	140	150
转弯半径 (mm) Turning radius	500	
运行速度 (m/min) Automatic transmission speed(m/min)	20	
纱库轨道间距 (mm) Spacing between sliver storehouse and track (mm)	200	
悬挂粗纱距地面高度 (mm) Roving hanging height (mm)	1600 ~ 2200	
额定载荷 (Kg/ 锭) Rated load (kg/spindle)	2.5	
升降角度 Lift angle	15°	
传动形式 Transmission type	多电机顺序传动 Multi motor drive in sequence	

产品特点

- (1) 各部分组成形式多样且通用互换，可按用户所需合理布局，能形成较灵活的价格空间，也能方便实现系统升级。
- (2) 通过以太网进行远程监控诊断，实时了解设备运行状态。控制系统能实施跟踪记录输送部件的运行状态，显示故障报警，及时提醒进行机械维护。
- (3) 故障在线检测，做到故障位置的精确指示。
- (4) 采用无线网络技术，支持移动终端在任意位置对系统运行进行操控。

Product features

- (1) Each part of the composition in the form of diverse and interchangeable, according to user needs rational distribution, to form a more flexible space for the price, but also to facilitate the achievement of system upgrades.
- (2) Diagnostics via Ethernet for remote monitoring, real-time understanding of device operation. Control system can keep track of the implementation of the operational status of transport components, fault alarm display, a timely reminder for mechanical maintenance
- (3) The online fault detection, Do fault location precise instructions.
- (4) The wireless network technology is used to support the mobile terminal to control the system at any location.

主要业绩

- (1) JWF9562A 型粗细联输送系统为国内首套实现粗纱满空管自动输送的粗细联输送系统，是国家“十一五”科技支撑计划项目。

Main achievements

- (1) JWF9562A roving-ring link conveying system is the first domestic roving-ring link conveying system that realizes the automatic transmission of coarse yarn, which is the national "11th five-year" science and technology support project.

郑州宏大新型纺织机械有限责任公司

Zhengzhou Hongda New-type Textile Machinery Co., Ltd.

公司名称：郑州宏大新型纺机有限责任公司

Company Name: Zhengzhou Hongda New-type Textile Machinery Co., Ltd.

产品领域：开清棉系列设备、清梳联合机的研发及生产制造。

郑州宏大新型纺机有限责任公司的前身是始建于1949年的国营郑州纺织机械厂（简称郑纺机）清梳联工程公司。1999年，根据中国纺织机械（集团）有限公司资产重组的战略决策，由郑纺机和经纬股份共同出资组建郑州宏大新型纺机有限责任公司（简称郑州宏大），郑州宏大目前为经纬股份的全资子公司，专注于开清棉系列设备、清梳联合机研发及生产制造。

郑州宏大是我国最早从事清梳联相关技术和装备研发的单位，是国内最早具备独立成套研发制造销售清梳联合机能力的厂家。承担的《开清梳联合机的研制》项目1988年被列入国家“八五”重点科技攻关计划项目，1996年通过国家“八五”重点科技攻关项目成果验收，1997年被列入“九五”国家级重点科技推广计划项目。同期分别荣获中国纺织总会科技进步一等奖，国家科技进步二等奖。

公司于2001年3月通过ISO9001：2000质量管理体系认证；系列梳棉机和清花设备分别于2014年、2015年、2017年取得欧盟CE安全认证，使公司产品的质量、稳定性得到有力的保证。

郑州宏大的清梳联产品以其优良的性能和合理的价格在国内市场上占据了主导地位，其产品不仅深受天虹集团、魏桥集团、华孚集团、华芳集团、恒丰集团、德州华源、夏邑永安、平顶山昌茂、宣城天舒、河北圣元等国内众多用户的喜爱，同时还远销墨西哥、土耳其、印度、巴基斯坦、俄罗斯、乌兹别克斯坦、吉尔吉斯斯坦、埃及、贝宁、坦桑尼亚、摩尔多瓦、越南、朝鲜、柬埔寨、孟加拉、缅甸、泰国、马来西亚、印尼等国家和地区。

郑州宏大将始终秉持创新引领，诚信守实的发展理念，以技术、品质和服务致力于为客户创造价值最大化。

Product field: R&D and Manufacture of Series of Blowroom Machinery and Blowing-carding Machinery.

The predecessor of Zhengzhou Hongda New-type Textile Machinery Co., Ltd. was the Blowing-carding Engineering Company in the state-owned Zhengzhou Textile Machinery Plant (Zhengzhou Textile Machinery for short) formerly founded in 1949. In 1999, according to the strategic decision of asset reorganization of China Textile Machinery (Group) Co., Ltd., Zhengzhou Hongda New-type Textile Machinery Co., Ltd. (Zhengzhou Hongda for short) was established with the joint investment of Zhengzhou Textile Machinery Co., Ltd and Jingwei Textile Machinery Co., Ltd. At present, Zhengzhou Hongda is a wholly-owned subsidiary of Jingwei Textile Machinery Co., Ltd, focusing on the R&D and manufacture of series of Blowroom machinery and Blowing-carding machinery.

Zhengzhou Hongda is China's earliest unit engaged in the relevant technology and R&D of Blowing-carding machinery. It is the earliest manufacturer in China with independent complete R&D, manufacture and sales capabilities of Blowing-carding machinery. The project of "Development of Blowing-carding Machinery" undertaken by Zhengzhou Hongda was listed in the national "Eighth Five-Year Plan" key science and technology research projects in 1988. It passed the acceptance of the achievements of the national "Eighth Five-Year Plan" key science and technology research project in 1996 and was listed in the national "Ninth Five-Year Plan" key science and technology promotion projects in 1997. In the same period, it won the first prize of science and technology progress of China Textile Association and the second prize of national science and technology progress.

The company has passed the ISO 9001:2000 quality management system certifications in March 2001; Series of carding and cleaning equipment achieved the European CE Safety Certification respectively in 2014, 2015 and 2017 so that the company product quality and stability have been powerfully guaranteed.

Zhengzhou Hongda Blowing-carding products play a leading role in the domestic market with its excellent performance and reasonable price. Its products are not only deeply loved by many domestic users such as Tianhong Group, Weiqiao Group, Huafu Group, Huafang Group, Hengfeng Group, Dezhou Huayuan, Xiayi Yongan, Pingdingshan Changmao, Yicheng Tianshu, Hebei Shengyuan etc., but also exported to Mexico, Turkey, India, Pakistan, Russia, Uzbekistan, Kyrgyzstan, Egypt, Benin, Tanzania, Moldova, Vietnam, Korea, Cambodia, Bangladesh, Myanmar, Thailand, Malaysia, Indonesia and other countries and regions.

Zhengzhou Hongda always upholds the development concept of innovation and integrity with technology, quality and service to create maximum value for customers.

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1 郑州宏大清梳联合机成套设备 1 Zhengzhou Hongda Integrated Blowing-carding Line



图 1 许昌裕丰纯棉精梳清梳联清花设备



图 2- 许昌裕丰纯棉精梳清梳联梳棉设备



图 3- 纯棉环锭纺清梳联流程示意图



图 4- 华孚阿克苏 15 万锭纯棉清梳联清花车间



图 5- 岱银马来西亚 15 万锭清梳联梳棉车间

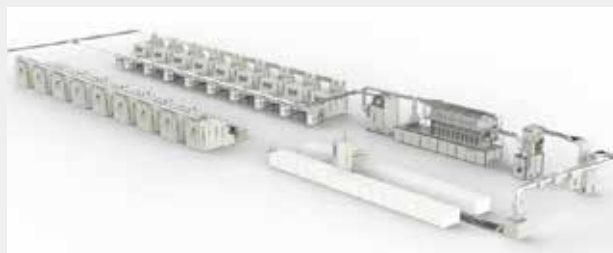


图 6- 转杯纺清梳联流程示意图



图 7- 新疆阿拉尔纳凯低支转杯纺生产线



图 8- 纺高含杂机采棉清梳联流程示意图



图 9— 乌兹别克安集延纯棉低支赛洛纺清梳联生产线

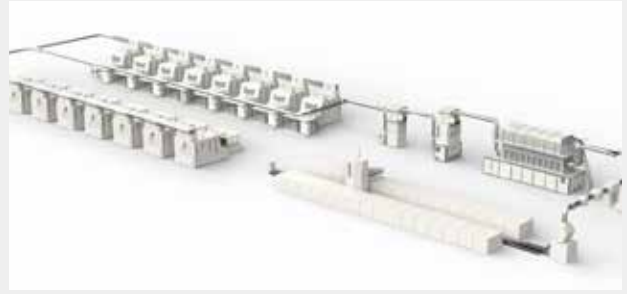


图 10— 纺化纤清梳联流程示意图



图 11— 长乐长源粘胶清梳联生产线

产品介绍

郑州清梳联合机的研发制造从 20 世纪 60 年代开始，先后经历了初步探索、测绘模仿、合作开发、自主创新研发等阶段。1994 年 11 月，郑州纺机研制的国产清梳联生产线在山东曹县棉纺厂通过中国纺织总会科技成果鉴定，开启了国产清梳联从无到有，越过起步摸索阶段，顶替进口，走上创新之路的新篇章。

2004 年，公司完成了高产梳棉机的系列设计研发与生产应用，先后推出了 JWF1204 系列单刺辊梳棉机和 JWF1206 系列三刺辊梳棉机，并率先在国内外推出 1220mm 机幅的梳棉机；2008 年，推出了具备单出条和双出条两种模式的 1500mm 宽幅梳棉机，并延伸至 2000mm 机幅用于高档无纺布梳理。2014 年，基于 JWF1204 系列梳棉机的基础，推出了升级版的 JWF1204B 系列单刺辊梳棉机。2016 年，设计研发最新 JWF1216 系列单刺辊梳棉机。2018 年，设计研发了 JWF1212 系列三刺辊梳棉机。公司也是世界上唯一研发并同时拥有单、双轴流开棉机的厂家，研发并同时拥有 1200mm、1600mm、1800mm、2000mm 等多种机幅混清

Introduction of product

Introduction of product: The R & D and manufacture of Zhengzhou Blowing-carding machinery began in the 1960s, and has gone through the stages of tentative exploration, mapping imitation, cooperative development, independent innovation and R & D. In November 1994, the domestic blowing-carding production line developed by Zhengzhou Textile Machinery Co., Ltd. passed the identification of the science and technology achievements of China Textile Association in Shandong Caoxian Spinning Mill, which opened a new chapter of the domestic Blowing-carding machinery from scratch, over the initial groping stage, replacing imports, and taking the road of innovation.

In 2004, the company completed the design, development and application of series of high-production cards, successively introduced the JWF1204 Series Single Taker-in Cards and JWF1206 Series Tri-taker-in Cards, and took the lead in introducing the working width 1220mm of Cards at home and abroad; In 2008, the working width 1500mm of Cards are introduced with single sliver-delivery and double sliver-delivery patterns and extended to the working width 2000mm for high-grade non-woven carding. In 2014, based on the basis of JWF1204 Series Cards, the upgraded JWF1204B Series Single Taker-in Cards were introduced. In 2016, the latest JWF1216 Series Single

棉设备。

2007 年，公司开始研发并成功应用远程网络监控、运维智能控制系统，服务和促进用户在线智能管理升级。2016 年，公司 JWF 系列高效数字化清梳联合机通过中纺联科技成果鉴定，并先后获得中纺联和恒天集团科技成果二等奖。2018 年 3 月，郑州宏大被中国纺织机械协会正式授予 " 中国纺织机械行业清梳联合机研发中心 "。

包括：1、纯棉环锭纺清梳联生产线；2、纯棉低支转杯纺清梳联生产线；3、高含杂机采棉清梳联生产线；4、化学纤维清梳联生产线。

组成郑州宏大清梳联成套设备的主要单机：组成清梳联流程的单机产品众多，郑州宏大公司拥有目前国内外市场上品种最全、功能最完善的各种单机产品，清梳联流程组合配置丰富多样。能够从机械装备、电气控制、流程排列、原料输送、工艺设计、技术服务等各方面提供最佳解决方案以满足用户不同需求。

Taker-in Cards were designed and developed. In 2018, the JWF1212 Series Tri-taker-in Cards were designed and developed. The company is the only manufacturer in the world that has developed and owned both single and double axial-flow openers, and has developed and owned 1200mm, 1600mm, 1800mm, 2000mm and other working widths of mixing and cleaning equipment.

In 2007, the company began to develop and successfully apply remote network monitoring, operation and maintenance of intelligent control systems, services and promotion of the user online intelligent management upgrade. In 2016, JWF Series high-efficiency digital blowing-carding machinery passed the identification of science and technology achievements of China Textile Union, and successively won the second prize of science and technology achievements of China Textile Union and China Hi-tech Group Corporation. In March 2018, Zhengzhou Hongda was officially awarded "China Textile Machinery Industry Blowing-Carding Machinery Research and Development Center" by China Textile Machinery Association.

Include: 1, Cotton Ring Spinning Blowing-carding line; 2, Cotton Low Count Rotor Spinning Blowing-carding line; 3, High-impurity Cotton Picking Blowing-carding Line; 4, Chemical Fiber Blowing-carding Line. Main Single Machine for Zhengzhou Hongda Integrated Blowing-carding Line:

There are many single machine products that make up the Blowing-carding process, Zhengzhou Hongda Company has the most complete and the most perfect single machine products in the domestic and international market at present, and the combination configuration of Blowing-carding process is rich and diverse. The best solutions are able to provide from mechanical equipment, electrical control, flow arrangement, raw material conveying, process design, technical services and so on to meet the different demands of users.

主要技术参数

The main technical parameters

序号 Serial No	设备类型 Type	设备型号 Model	简介 Brief introduction
1	抓棉机 Bale Pluckers	JWF1016 型 Model JWF1016	单打手抓棉机，最大产量 800Kg/h Single-roll Bale Plucker, Max output: 800Kg/h
		JWF1012 型 Model JWF1012	双打手抓棉机、双抓棉机通道、顺向抓棉，最大产量 1500Kg/h Double Beater Bale plucker, double plucking channel, unidirectional plucking, maximum production: 1500Kg/h
		JWF1018 型 Model JWF1018	双打手抓棉机、双抓棉机通道、顺向抓棉，抓棉臂 2400mm，最大产量 2000Kg/h Double Beater Bale plucker, double plucking channel, unidirectional plucking, plucking arm: 2400mm, maximum production: 2000Kg/h
2	重物分离设备 Heavy Particle Separators	JWF0001 型 Model JWF0001	具有全金属、火星检测排除，杂质、短绒、微尘排除及气流平衡功能 It has functions such as all metal & spark detection removal, impurities, flocks and dust removal and airflow balance
		TF45A 型 Model TF45	重物、大杂分离排除 Separation and removal of heavy particles and large impurities
		TF50 型 Model TF50	杂质、微尘分离排除 Separation and removal of impurities and dust
		TF45B 型 Model TF45B	原料输送，重物、大杂排除及气流平衡 Raw materials conveying, heavy particles and large impurities removal and airflow balancing
3	开棉机 Openers	FA103B 型 Model FA103B	双轴流，最大产量 1000Kg/h Double axial-flow, maximum production: 1000Kg/h
		JWF1102 系列	单轴流开棉机，采用综合打手、线性开松，最大产量 1300Kg/h Single Axial-flow Opener adopts compound beater, linear opening, maximum production: 1300Kg/h
		JWF1104 型 Model JWF1104	最新设计开棉机，采用气压棉箱，开松除杂柔和，纤维损伤小，最大产量 1600Kg/h The newest designed opener adopts pneumatic hopper with flexible opening and removing impurities, less fiber damage, maximum production: 1600Kg/h
4	多仓混棉机 Multi-mixer	JWF1024 系列 JWF1024 Series	风机输送、适用于化纤及低支气流纺，有 6 仓和 10 仓两种规格，机幅 1600mm Fan conveying, suitable for chemical fiber and low count OE-spinning, two specifications: 6 chambers and 10 chambers, working width: 1600mm
		JWF1026 系列 JWF1026 Series	皮带输送，有 6 仓和 10 仓两种规格，工作机幅有 1200、1600、1800、2000mm，最大产量 2000Kg/h Leather lattice conveying, two specifications: 6 chambers and 10 chambers, working width: 1200mm, 1600mm, 1800mm, 2000mm, maximum production: 2000Kg/h
5	清棉机 Cleaners	JWF1126 系列 JWF1126 Series	储开棉机、适用于化纤，有 1200、1600 两种工作机幅，最大产量 1800Kg/h Reserve Opener, suitable for chemical fiber, working width: 1200mm, 1600mm, maximum production: 1800Kg/h
		JWF1124C 系列 JWF1124C Series	单辊筒清棉机，采用最新中间吸落棉技术，有 1200、1600、1800、2000mm 等 4 种工作机幅，最大产量 2000Kg/h Single-roll Cleaner adopts the current intermediate waste suction technology, working width: 1200mm, 1600mm, 1800mm, 2000mm; maximum production: 2000Kg/h
		FA109A 型 Model FA109A	三辊筒开棉机、适用于高含杂原棉，最大产量 1200Kg/h Tri-roll Cleaner, suitable for high-impurity raw cotton, maximum production: 1200Kg/h

6	除微尘机 Dedusting machine	FA151 型 Model FA151	适用于产量 1000Kg/h 纯棉清梳联流程 Suitable for production 1000Kg/h pure cotton Blowing-carding process
		JWF1054 型 Model JWF1054	适用于产量 1500Kg/h 纯棉清梳联流程 Suitable for production 1500Kg/h pure cotton Blowing-carding process
7	梳棉机 Cards	JWF1204B 系列 JWF1204B Series	单刺辊梳棉机、2014 年研发制造，有 1020 和 1220 两种机幅，最高出条速度 260m/min Single Taker-in Cards, developed and manufactured in 2014; working width:1020mm and 1220mm, maximum delivery speed: 260m/min
		JWF1216 系列 JWF1216 Series	单刺辊梳棉机、2016 年研发制造，有 1020 和 1220 两种机幅，最高出条速度 340m/min Single Taker-in Cards, developed and manufactured in 2016; working width:1020mm and 1220mm, maximum delivery speed:340m/min
		JWF1206 系列 JWF1206 Series	三刺辊梳棉机、2006 年研发制造，有 JWF1206 和 JWF1206A 两种型号，工作机幅有 1020、1220mm，最高出条速度 360m/min Model JWF1206 and Model JWF1206A Tri-taker-in Cards, developed and manufactured in 2006; working width:1020mm and 1220mm, maximum delivery speed:360m/min
		JWF1212 系列 JWF1212 Series	三刺辊梳棉机、2018 年研发制造，工作机幅有 1020、1220mm，最高出条速度 360m/min Tri-taker-in Cards, developed and manufactured in 2018, working width:1020mm and 1220mm, maximum delivery speed:360m/min
		JWF1208 型 Model JWF1208	单刺辊梳棉机，工作机幅 1500mm，具有单出条和双出条两种输出模式，最高出条速度 360m/min Single take-in Card, working width:1500mm, two output modes of single delivery sliver and double delivery sliver, maximum delivery speed:360m/min
8	圈条器 Coilers	TF2501/TF2503A 型 Model TF2501/ TF2503A	手动圈条器，圈条筒直径分别是 600mm/1000mm Manual Can-changing Coiler, can diameter: 600mm/1000mm
		TF2511/TF2513A 型 Model TF2511/ TF2513A	圆周自动换桶圈条器，采用最细自动断条装置，圈条筒直径 600/1000mm， Circle Automatic Can-changing Coiler adopts the thinnest automatic sliver-break device, can diameter:600/1000mm
		TF2521A/TF2522 型 Model TF2521A/ TF2522	直线自动换桶圈条器，圈条筒直径 600/1000mm Straightline Automatic Can-changing Coiler is adopted, can diameter: 600/1000mm

产品特点

- (1) 由不同功能特点的高端单元机和数字化控制系统组成,充分体现高速、高效、安全、质量稳定、配置灵活的特点。
- (2) 创新研发往复抓棉机双区顺向抓棉技术,实现精细抓取,达到抓小、抓匀、减少纤维损伤的工艺目的。
- (3) 设计研发多种重物分离装置和气流平衡装置,能够满足用户纺不同原料的需求。
- (4) 全流程主要开松除杂设备均采用中间吸落棉技术,落杂收集排除顺畅,风量消耗低。全系统密封好,噪声低,粉尘与短纤排放少,显著改善生产环境,延长清洁保养周期。
- (5) 具有单、双轴流等多种形式的开棉机,满足不同开松除杂要求。
- (6) 具有气流输送、皮帘输送两种形式的多仓混棉机,工作机幅有 1200、1600、1800、2000 等 4 种,其原料混合效果国际领先。
- (7) 创新开发多仓仓位量化算法和控制模型,大幅提高抓棉机工作效率。
- (8) 最新设计研发的 JWF1212 系列三刺辊梳棉机、JWF1216 系列单刺辊梳棉机和 JWF1208 型单刺辊梳棉机,工作机幅涵盖 1020mm、1220mm 和 1500mm 三种,目前国内外清梳联市场上梳棉机品种最全、功能最优。
- (9) 创新研发梳棉机自适应多维智能匀整技术,有效筵棉喂入更加均匀,生条指标更好更稳定。
- (10) 广泛采用轻质化的铝合金型材或铸铝合金,显著提高外观质量和综合工艺性能。
- (11) 实施在线监测、数据采集、远程监控和网络管理,实现全流程自适应连续供棉,同时达到方便管理,工艺和生产优化调整快捷,稳定和提高纺纱质量,提升管理水平和效率的目的。
- (12) 高效稳定、环境整洁、能耗低、管理维护方便、劳动强度低、用工减少,符合未来纺织行业发展方向和国家发展高端智能装备的指导思想。

Product features

- (1) It is composed of high-end unit machine with different functions and digital control system, which fully embodies these characteristics of high speed, high efficiency, safety, stable quality and flexible configuration.
- (2) Double-zone unidirectional plucking technology of Reciprocating Bale Plucker is innovated and developed in order to achieve fine, small and even grasp, and reduce fiber damage.
- (3) Design and development of a variety of heavy particle separation device and airflow balancing device can meet users' demands of spinning different raw materials.
- (4) In the whole process, the main opening and cleaning equipment adopt intermediate waste suction technology with smooth waste collection and elimination and low air consumption. The whole system has good sealing, low noise and less dust and staple fiber emission. It can improve the production environment and prolong the cleaning and maintenance cycle.
- (5) Openers have single/double axial-flow forms to meet the requirements of different opening and waste removal.
- (6) Multi-mixers adopt airflow conveying and leather lattice conveying with working widths of 1200/1600 /1800/2000mm, and the mixing effect of raw materials is in the leading position in the world.
- (7) Innovative development of multi-chamber position quantization algorithm and control model can greatly improve the work efficiency of Plucker.
- (8) The current JWF1212 Series Tri-taker-in cards, JWF1216 Series Single Taker-in Cards and Model JWF1208 Single Taker-in Card are designed and developed with working widths of 1020mm 1220mm and 1500mm. At present, the carding machine has the most complete variety and the best function in the domestic and foreign blow-carding market.
- (9) For carding machine, the innovative research and development of self-adaptive multi-dimensional intelligent leveling technology makes for more effective uniform feeding sheet cotton and more stable sliver index.
- (10) Lightweight aluminum alloy profile or cast aluminum alloy are widely adopted to significantly improve the appearance quality and comprehensive technological properties
- (11) Implement of on-line monitoring, data acquisition, remote monitoring and network management can realize the whole self-adaptive continuous feed process, achieve convenient management, fast optimize and adjust process and production, stably improve spinning quality, and improve management level and efficiency.
- (12) High efficiency and stability performance, clean environment, low energy consumption, convenient management and maintenance, low labor intensity and reduced employment are in line with the future development direction of textile industry and the guiding ideology of national development for high-end intelligent equipment.

2 混纺 / 色纺高精度称量机组 2 Blended/colored Spinning High-precision Weighing Unit



图-12 高精度混清棉机组流程示意图



图-13 微山天虹涤粘混纺高精度自动称量生产机组



图-14 济宁天虹涤粘混纺高精度自动称量生产线

产品介绍

2016 年，郑州宏大成功将国内首创的高精度成套自动称量技术应用到清梳联生产线中，通过采用实时动态校正、误差统计补偿、预测控制策略等控制技术确保高精度配棉要求，称量误差 $\leq 1.5\%$ ，使国内自动称量设备的称量精度从百分位提升至千分位，其原料的混合精度处于国际领先水平，该技术获得中国恒天集团 2017 年度科技进步奖。截止到 2018 年 10 月，高精度自动称量机组已实现销售 50 余台套，获得国内外广大用户好评。

高精度自动称量机组主要设备：该称量混棉机组适用于对各种等级的原棉、色棉、棉型化纤和 76 毫米以下的中化纤进行高精度称重计量及混合。该机组由开棉机（凝棉器）、风机、配棉称量机、帘子混棉机组成，一般配备 2 到 6 台配棉称量机，最多可实现 6 种不同纤维原料的高精度混合。

Introduction of product

In 2016, Zhengzhou Hongda successfully applied the first domestic complete high-precision automatic weighing technology to Blowing-carding line. By adopting real-time dynamic calibration, error statistical compensation, predictive control strategy and other control technologies to ensure high precision cotton distribution requirements, the weighing error is less than 1.5 %, the weighing precision of domestic automatic weighing equipment is raised from percentile up to the micrometer, and the mixing precision of raw materials is in the international leading level. This technology has won the 2017 Annual Science and Technology Progress Award of China Hi-tech Group Corporation. As of October 2018, high-precision automatic weighing unit has been sold more than 50 sets, won the majority of customers at home and abroad.

Main Equipment for High-precision Automatic Weighing Unit: The weighing-mixing unit is suitable for high precision weighing, measuring and mixing various grades of raw cotton, colored cotton, cotton-type chemical fiber and medium-length chemical fiber below 76mm. The unit is composed of opener (condenser), fan, distributing weighing machine and lattice mixer. Generally equipped with 2 to 6 distributing weighing machines, the maximum 6 kinds of different fiber materials can be mixed with high precision.

主要技术参数

The main technical parameters

设备类型 Type	设备型号 Model	简介 Brief introduction
凝棉器 Condenser	FA051A 系列 FA051A Series	有 1000 和 1200mm 两种机幅 Working width:1000mm,1200mm
开棉机 Opener	JWF1126B 型 Model JWF1126B	称量机组专属开棉机，自动化程度高，工作机幅 1600，最大产量 400Kg/h Opener specially equipped with Weighing unit, high degree of automatization, working width:1600mm, maximum production: 400Kg/h
自动称量机 Automatic weighing machine	JWF1062 型 Model JWF1062	高精度称量机、称量精度高，工作机幅 1600，最大产量 400Kg/h，流程种根据混合原料的种类最多可配置 6 台 High-precision weighing machine with high weighing precision, working width of 1600mm, maximum production of 400kg/h, can be configured up to 6 units according to the variety of mixed raw materials.
帘子混棉机 Lattice mixer	JWF1028 型 Model JWF1028	配合自动称量机组使用，工作机幅 1200mm Equipped with automatic weighing unit, working width: 1200mm

常德纺织机械有限公司

CHANGDE TEXTILE MACHINERY CO., LTD.

公司名称：常德纺织机械有限公司
Company Name: CHANGDE TEXTILE MACHINERY CO., LTD.

产品领域：经编机

常德纺织机械有限公司位于湖南省常德经济技术开发区，占地 22 万平方米，注册资金人民币 7235 万元，在册员工 553 人。是目前国内最大的经编机研发、生产基地。公司主要生产高速经编机、双针床经编机及产业用布的多轴向、双轴向经编机等 6 大系列 60 余种型号，大多数为国内首创，达到国际先进水平，远销德国、西班牙、巴西、韩国等多个国家和地区。公司获得了 ISO9001—2000 质量管理体系认证，已获授权专利 62 项，先后被认定为“湖南省高新技术企业”、“湖南省重点高新技术企业”、“国家火炬计划重点高新技术企业”称号。

Product Field: Warp Knitting Machine

Changde Textile Machinery CO., Ltd. is located in Changde Economic and technological Development Zone of Hunan Province. It covers an area of 220000 square meters, registered capital of RMB 72.35 million yuan, 553 registered employees. The Company is the largest domestic research and development of warp knitting machine, production base. The company mainly produce six types warp knitting machine more than sixty models, such as high speed warp knitting machine, double needle bar warp knitting machine multi-axial warp knitting machine and bi-axial warp knitting machine and so on. Most of them are domestic pioneers, reaching the international advanced level and exported to Germany, Spain, Brazil, South Korea and other countries and regions. The company has obtained ISO9001-2000 quality management system certification, has been authorized 62 patenes, and has been recognized as "Hunan high-tech enterprises", "Hunan key high-tech enterprises", "Notional Torch Program key high-tech enterprises" title.

联系人及联系方式

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1 E2528/3A 系列型高速经编机 1 WAPP KNITTING MACHINE E2528/3A SERIES



图 1—E2528/3A 系列型高速经编机

产品介绍

采用涤纶和锦纶长丝、晴纶丝、氨纶丝、涤纶变形丝、混纺纱等原料，编织平素织物、弹力织物和绒类织物，经相应后整理工序加工，用于制作外衣面料、运动装、泳装、席梦思面料和床罩、窗帘等装饰面料。

Introduction of product

The machine uses various of fibers, such as Polyester, Polyamide, Acrylic, Spandex, Textured filament yarn, Blended yarn, to knit plain fabrics, elastic fabrics, velour fabrics, etc. After finishing process, these fabrics can be made into Garments Sportswear, Bathing dress, Pattern bed cloth, Shoe cloth, Bedspread, Curtain, etc.

主要技术参数

The main technical parameters

机型 Machine type	E2528/2B	E2528/3A	E2528/4A
针型 Needle	槽针 Compound Needles		
机号 Gauge	E22、E24、E28、E32、E36		
机幅（毫米） Working width(mm)	132"(3352)、154"(3911)、186"(4752)、218"(5537)、238"(6045)、268"(6807)、280"(7112)		
梳栳数 No. of guide bars	2	3	4
最高编织速度（转/分） Max. knitting Speed (courses/min)	2500	2200	1800
梳栳横移机构 Pattern drive device	采用编花凸轮或电子横移机构控制，可选配行程变速比装置 Pattern cams or EL device with suitable transmission gear ratio		
送经机构 Let-off device	EBC 电子送经方式 EBC let-off system		
牵拉机构 Take-up device	电子牵拉 Electronic Take-up device		
最大卷取直径（毫米） Max. fabric batching diameter (mm)	φ800		
分段经轴规格（毫米） Dia. Of sectional beam(mm)	经轴直径：φ152 盘头：φ762×535（φ30"×21"）E2528/3A 系列 GB1 可配 φ1067×535（φ42"×21"） Diameter or Beam Shaft: φ152 Sectional Beam: φ762×535（φ30"×21"）Beam size φ1067×535（φ42"×21"）is optional on GB1 for E2528/3A Series		
全机功率（千瓦） Total Power(kw)	21	22.5	24

主要业绩

公司最重要的主导产品，其产销量占公司总量的百分之八十以上。

Main achievements

Is the most important leading product of our company, the production and sales accounted for more than 80% of the company's total.

2 E2518/2T 系列型高速经编机 2 WAPP KNITTING MACHINE E2518/2T SERIES



图 2— E25182T 系列型高速经编机

产品介绍

主要用于生产游泳衣和运动服上的弹性织物，同时也生产内衣和功能性服装，另外用于汽车车顶衬里和涂层底布等的生产。

Introduction of product

Mechine is mainly for producing clastic fabrics on swinwears, sports suits, underwears and functional garments. Besides, roof lining and coat base cloth for cars are also available on the machine.

主要技术参数

The main technical parameters

机型 Machine type	E2518/2T-170	E2518/2T-156	E2518/2T-132
针型 Needle	槽针 Compound Needles		
机号 Gauge	E32、E36		
机幅（毫米） Working width(mm)	170"(4318)	156"(3962)	132"(3352)
梳栳数 No. of guide bars	2 bars (GB1、GB2)		
最高编织速度（转 / 分） Max. knitting Speed (courses/min)	3000	3200	3500
最大卷取直径（毫米） Max. fabric batching diameter (mm)	φ800		
送经范围（毫米 / 腊克） Yarn Let-off Range	GB1: 261~6011 (30"beam) ; 196~4508 (21"beam) ; GB2: 167~9392 (30"beam) ; 125~7044 (21"beam) ;		
密度范围 Density Range	6.32~70.3courses/cm		
盘头规格 [毫米 (英寸)] Sectional Beam Size	6-φ535×535 (21") ; 6-φ762×535 (30")		
经轴直径 Diameter of Beam Shaft	φ152mm		
全机功率（千瓦） Total Power(kw)	20.5		
机器重量 Weight	7000KG	6400KG	5400KG

主要业绩

是运行速度最高的国产经编机。

Main achievements

Is the highest operating speed of domestic warp knitting machine.

3 E2288A 系列型双针床经编机 3 DOUBLE-NEEDLE WAPP KNITTING MACHINE E2288A SERIES



图 3—E2288A 系列型双针床经编机

产品介绍

该机型为双针床短毛绒经编机。适用于涤纶、锦纶、腈纶、丙纶、粘胶等化学纤维和精纺棉纱、混纺纱等天然纤维原料，能形成绒毛高度为 3 ~ 30 毫米的短绒织物。可以广泛用做毛毯、地毯、绒类织物、服装面料、鞋面料、汽车内饰等。

Introduction of product

It's double needle bar for short pile machine. It could use chemical fibers such as polyester, polyamide, acrylic, polypropylene and viscose or natural fiber such as spinning cotton yarn, blended yarn etc, to produce short pile fabrics of pile height within 6mm or space fabrics with thickness of 3~30mm. By using different yarns, machine could produce different fabrics with vivid-colored designs which could be widely used for blankets, velvet fabric, shoe fabrics, home textiles fabrics and auto cushions etc.

主要技术参数

The main technical parameters

机型 Machine type	E2288A-136	E2288A-158	E2288A-190
	双针床 Double needle bar		
针型 Needle	舌针 Latch Needle		
机号 Gauge	E16、E18、E22		
机幅 (毫米) Working width(mm)	3454 (136")	4013 (158")	4826 (190")
梳栳数 Number of guide bars	6 把 (4 把地梳栳, 2 把毛梳栳) 6 Bars (4Ground Bars, 2 Pile Bars)		
脱圈板隔距 (毫米) Trace Plate Space(mm)	3~30		
最高编织速度 (横列 / 分) Max. knitting Speed (courses/min)	720	700	650
梳栳横移机构 Pattern drive device	编花凸轮 — 随机; 编花链轮 — 订货选用 Pattern Discs-with the machine; Pattern Chains-optional for customers		
送经机构 Let-off device	EBC 电子送经方式 (毛梳 — 罗拉送经) EBC Yan Let-off Device(Roller let-off on Pile bar)		
牵拉机构 Take-up device	电子牵拉 Electronic Take-up device		
最大卷取直径 (毫米) Max. fabric batching diameter (mm)	φ1270		
分段经轴规格 (毫米) Diameter of Sectional Beam(mm)	地梳: φ535×535 (φ21"×21")、φ762×535 (φ30"×21") 毛梳: φ762×535 (φ30"×21")、φ1016×535 (φ40"×21") Ground Bars: φ535×535 (φ21"×21")、φ762×535 (φ30"×21") Pile Bars: φ762×535 (φ30"×21")、φ1016×535 (φ40"×21")		
全机功率 (千瓦) Total Power(kw)	20		

主要业绩

远销西班牙、土耳其、伊朗, 年均创汇近 2000 万元。

Main achievements

Exported to Spain, Turkey, Iran, the average annual earning nearly 20 million yuan.

4 E2295 系列型双针床经编机 4 DOUBLE-NEEDLE WAPP KNITTING MACHINE E2295 SERIES

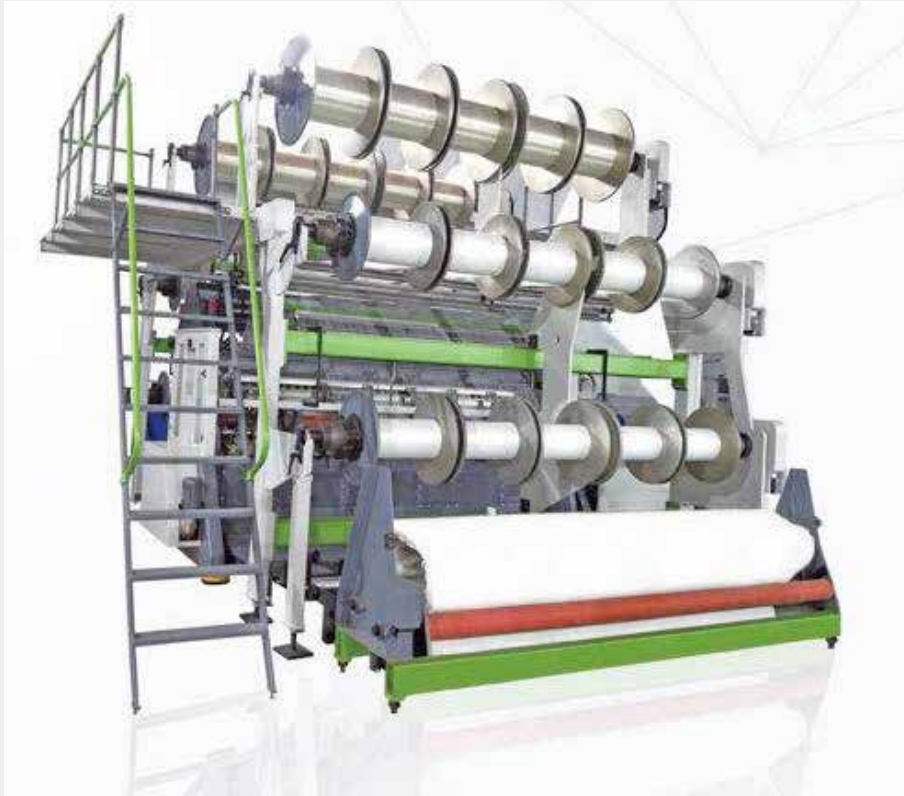


图 4—E2295 系列型双针床经编机

产品介绍

该机型为双针床短绒经编机。适用于涤纶、锦纶、腈纶、丙纶、粘胶等化学纤维和精纺棉纱、混纺纱等天然纤维原料，能形成绒毛高度为 6 毫米以下的一般短绒织物和 0.6~12 毫米厚度的提花间隔织物（俗称“三明治”）。贾卡机能快速变换华型，产生立体花纹效应，使用不同类型的纱线可以生产富有表现力的彩色花纹。可以广泛用做服装面料、鞋面料、汽车内饰等物。

Introduction of product

It's double needle bar for short pile machine. It could use chemical fibers such as polyester, polyamide, acrylic, polypropylene and viscose or natural fiber such as spinning cotton yarn, blended yarn etc, to produce short pile fabrics of pile height within 6mm or space fabrics with thickness of 0.6-12mm(calling "sandwich fabrics"). Equipped with Jacquard, machine could change and produce tri-dimensional designs rapidly. By using different yarns, machine could produce different fabrics with vivid-colored designs which could be widely used for garments, shoe fabrics, home textiles fabrics and auto cushions etc.

主要技术参数

The main technical parameters

机型 Machine type	E2295/6	E2295/7	E2295/8	E2295-J6/1	E2295-J6/2	E2295-J7/1	E2295-J5/3
针型 Needle	舌针 Latch Needle						
机号 Gauge	E16、E22 、E24、E26、E28			E22 、E24			
机幅 （毫米） Working width(mm)	84"、 136"、 154"						
梳栉数 Number of guide bars	6 把 (2 把毛梳) 6 Bars (2 Pile Bars)	7 把 (3 把毛梳) 7 Bars (3 Pile Bars)	8 把 (3 把毛梳) 8 Bars (3 Pile Bars)	6 把 (1 把贾卡) 6 Bars (1 Jac-qua Bar)	6 把 (2 把贾卡) 6 Bars (2 Jac-qua Bars)	7 把 (1 把贾卡) 7 Bars (1 Jac-qua Bar)	5 把 (3 把贾卡) 5 Bars (3 Jac-qua Bars)
脱圈板隔距 （毫米） Trace Plate Space(mm)	0.6~12			1.2~8			
最高编织速度 （横列 / 分） Max. knitting Speed (courses/min)	800	750	700	550	500	550	450
梳栉横移机构 Pattern drive device	N 型横移机构或电子横移机构 N-type pattern drive device or EL device						
送经机构 Let-off device	EBC 电子送经 EBC let-off system						
牵拉机构 Take-up device	电子牵拉 Electronic Take-up device						
最大卷取直径 （毫米） Max. fabric batching diameter (mm)	φ1270						
分段经轴规格 （毫米） Diameter of Sectional Beam(mm)	毛梳：φ1016×535（φ40"）、地梳：φ762×535（φ30"） Pile Bar：φ1016×535（φ40"）、Ground Bar：φ762×535（φ30"）						
全机功率 （千瓦） Total Power(kw)	24						

主要业绩

专业生产鞋材面料，年均销量超过 50 台。

Main achievements

Specializing in the production of shoe fabrics, annual sales of more than 50 units.

宜昌经纬纺机有限公司

Yichang Jingwei Textile Machinery Co., Ltd.

公司名称：宜昌经纬纺机有限公司
Company Name: Yichang Jingwei Textile Machinery Co., Ltd.

产品领域：加捻机械

宜昌经纬纺机有限公司是中国恒天集团旗下上市公司经纬纺机的子公司，一直致力于高新技术纺机产品的开发和制造。

目前公司拥有环锭、倍捻、直捻、并络等多种专利技术，产品涵盖棉纺加捻系统、化纤加捻系统、玻纤加捻系统、地毯加捻系统和绳网加捻系统等五大领域，产品广泛应用于纺织、帘帆布、工业丝、地毯、建材、电子、绳网等行业，并向军工、航天、体育、起重、安全等产业延伸发展，设备远销欧洲、南北美洲、亚洲等国家和地区，公司已成为世界一流的加捻设备供应商。

宜昌经纬纺机始终关注客户的需求，与客户紧密合作，不断进行技术创新和智能化、人性化开发，二十年的加捻机设计制造积累了雄厚的专业能力，使我们能为客户量身定制设备的解决方案。

Yichang Jingwei Textile Machinery Co., Ltd. is China's largest, most species high-tech enterprise, it's a listed holding subsidiary of Jingwei Textile Machinery Company Limited, and it's subjected to China Hengtian Group.

YCTM had ring twisting, two-for-one twisting, direct cabling, winding and other twisting patent technology, products covering cotton spinning twisting systems, chemical fiber twisting systems, glass fiber twisting system, carpet yarn twisting system and rope twisting five major areas, the products are widely used in the textile, canvas curtain, technical yarn, carpets, building materials, electronics, rope and other industries, and the extension of the development of the military, aerospace, sports, lifting, safety industry. in recent years our machine have been exported to Europe、North and South Americas、Asia etc. It has become a world first-class twisting system supplier.

Yichang Jingwei textile machinery always focus on customers' demand. We cooperate closely with customers and will continue to carry out technological innovation and humanized development. Twenty years of twisting machine design and manufacturing has accumulated abundant professional ability which can make our customers suitable equipment solutions.

联系人及联系方式

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1 地毯丝加捻机 1 Carpet twister



图 1— 地毯丝加捻机
Carpet twister



图 2— 节能锭罐
Tulip type of spindle pot



图 3— 气动纱架
Pneumatic creel

产品介绍

依靠领先的技术，K3502/ K3502A 地毯丝加捻机在经济效益、质量和用户界面友好性方面都设立了新的标准。现代化的技术使 K3502/ K3502A 可以大幅降低能耗、智能控制、定向挡车，从而获得高品质的产品。它适用于加捻各种 BCF 丝（PA、PP、PES、PTT 等）、合成纤维长丝（PA、PP、PES、PTT 等）和短纤纱等。

Introduction of product

With leading technology, K3502/ K3502A Carpet twister sets a new standard on economy, quality and friendly interface. Modernized technology makes K3502/ K3502A available on reducing energy consumption, intelligent control and monitoring, obtaining first class product. It is suitable for twisting all BCF yarns(PA, PP, PES, PTT etc.), Continuous synthetic filament yarns(PA, PP, PES, PTT etc.) And staple fibers etc.

产品特点

- 1、高效率，最高锭速 9000RPM，相对于锭带传动，生产效率提高 40% 以上。
- 2、高品质，锭间速差小于等于 $\pm 3\%$ ；运转平稳，纱线品质好；
- 3、低损耗和减少用工，无需更换锭带，维护简单；
- 4、节能性锭罐，优化的锭罐、加捻盘结构，加捻同等纱线时达到更合理的气圈形状，节约能耗；
- 5、直捻或倍捻通用；
- 6、气动穿纱；
- 7、通风系统和推拉门结构：通风系统将热量和灰尘抽到室外，降低热负荷并提高空气质量，节约能源（可选配）；每个锭位滑门很大地降低噪音水平，并保障安全（可选配）；
- 8、大成品卷装 & 留尾纱设置：成品卷装直径可达 400mm，减少工序间搬运次数，提高生产效率，允许设置和控制尾纱长度，为地毯编织换纱提供便利；
- 9、满管自停及自动输送系统：减轻操作者的工作量，操作者更容易卸载纱线；
- 10、气动纱架：气动升降纱架，大幅降低装卸纱操作强度，平稳可靠。

Product features

1. High efficiency, Max spindle speed is up to 9000rpm, compare with the belt drive, it can improve the production efficiency more than 40%;
2. High quality, Spindle speed toleration is not more than $\pm 0.3\%$, ensure the machine smooth and steady running, to achieve the high quality twisted yarn;
3. Low wear and tear and less labour, no need replace belt frequently, easy to maintain;
4. Tulip type of spindle pot, optimized structure of pot and twisting plate. Get the ballooning shape more reasonable, when twisting the same kind yarn, save energy consumption;
5. The machine can be used as direct cabling and two-for-one twisting;
6. Pneumatic threading;
7. Air duct system and sliding doors structure: The air duct system blow heat and dust to outside, reduce heat load, improve air quality and working environment, save power consumption. (optional); The sliding doors on each position can reduce the noise, improve safety. (optional)
8. Large finished packages and transfer tail: The diameter of the finished package can reach 400mm, so you can reduce the frequency between process handling, improve production efficiency; Allows to set up and control the length of the tail yarn and provide convenience for change carpet weaving yarn;
9. Autostop by setting length and automated conveyer belt system: Reduce operator's work load and easy to unload the yarns;
10. Pneumatic creel: Pneumatic lifting creel can greatly makes the operation of loading and unloading more stable and reliable.

主要技术参数

The main technical parameters

参数名称 Items	规格 Specification
锭距 Gauge of spindles	450/500mm
锭数 Number of spindles	176 (最大) 176 (Max)
锭子速度 Mechanical spindle speed	2400-9000 转 / 分 2400-9000 rpm
卷绕速度 Take-up speed	22.5-60 米 / 分 (直捻) 22.5-60 m/min (Direct cabling) 50-120 米 / 分 (倍捻) 50-120 m/min (TFO Twisting)
捻度范围 Twist range	直捻: 20-400 捻 / 分 Direct cabling: 20-400 T/m 倍捻: 40-800 捻 / 分 Two-for-one twisting: 40-800 T/m
捻向 Direction of Twist	S or Z
原丝纤度范围 Supply yarn count	直捻: 700 分特 x2-5000 分特 x2 (10" 动程卷装) (随原料不同而有所变化) Direct cabling: 700 dtex x2-5000 dtex x2 (Traverse 10") (Yarn titer may vary with different yarn material)
	倍捻: 700 分特 5000 分特 (10" 动程卷装) (随原料不同而有所变化) Two-for-one twisting: 700 dtex -5000 dtex (Traverse 10") (Yarn titer may vary with different yarn material)
锭子丝卷装 Spindle feeding package	直捻: 最大直径 x 长度: $\phi 265$ mm x254 mm 或 $\phi 280$ mm x254 mm Direct cabling: Dia. Max. x Length: $\phi 265$ mm x254 mm or $\phi 280$ mm x254 mm 倍捻: 最大直径 x 长度: $\phi 265$ mm x254 mm 或 $\phi 280$ mm x254 mm Two-for-one twisting: Dia. Max. x Length: $\phi 265$ mm x254 mm or $\phi 280$ mm x254 mm
纱架丝卷装 Creel feeding package	最大直径 x 长度: $\phi 290$ mm x254 mm Dia.Max. x Length: $\phi 290$ mm x254 mm
卷取卷装 Take-up package	最大直径 x 长度: $\phi 400$ mm x254 mm Dia.Max. x Length: $\phi 400$ mm x254 mm
机器宽度 Machine width	1486 mm
机器高度 Machine height	2757 mm
机器长度 Machine Length	45384 mm (最大) 45384 mm (Max)

2 CGKV548/549 系列玻捻机

2 CGKV548/549 series Glass fiber twister



图 4—CGKV548 系列玻璃纤维捻线机
CGKV548 Series Glass Fiber Twister



图 5—CGKV548 系列玻璃纤维捻线机
CGKV548 Series Glass Fiber Twister



图 6—CGKV549 系列玻璃纤维捻线机
CGKV549 Series Glass Fiber Twister

产品特点

- 1、PLC 集中控制：工艺参数触摸屏输入，定长自停，断电 1S 不停机，单锭断纱自停报警。
- 2、全数字化控制，功能强大，性能卓越，抗干扰能力强，可靠性高，便维修。
- 统一控制平台和软件平台，方便系统维护和升级，全工业以太网通讯，可提供远程监控及诊断和维护功能。
- 3、每锭配有光电式断纱检测器，确保纺纱过程中纱线的在线检测功能和更高的可靠性。
- 4、专业设计的电锭传动技术：锭速最大可达 8000rpm；电锭有热保护；变频调速；气动刹车。
- 5、升降系统采用机床级丝杠螺母机构。保证升降传动的稳定可靠。配合直线位移传感器，控制运行精度，管纱成型优异。
- 6、丝筒传动系统：E 型机丝筒由自润滑尼龙锥齿轮传动和气动松筒装置，运转平稳，机械传动保证整机丝筒的一致性。F 型机丝筒单马达驱动和气动松筒装置，单锭马达配有电气保护装置；平行丝筒；速度统一变频控制和调节，操作维护简便。
- 7、F 机型分段包装（独立的机节和升降），节省了安装时间。
- 8、猪尾导纱钩和气圈环控制。
- 9、集中润滑系统，保障钢领润滑充分。

Product features

- 1.Center control through PLC:Technological parameter is input on the touch screen, pre-set length auto-stop. Nonstop when power off 1S, yarn breaking auto-stop for each spindle with alarm function.
- 2.Full digitalization control, strong function and excellent performance, own immunity from interference, high reliability, easy to care and maintain.Uniform control and software platform ensure the system maintenance and upgrade. Complete industrial Ethernet communication, can provide the remote control and diagnose function.
- 3.Each spindle position equip with the photoelectric yarn break sensor, ensure the monitoring online function in the process of twisting and high reliability.
- 4.Professional designed motor spindle technology: Spindle speed is up to 8000rpm; spindle motor with thermal protection; Control the spindle speed via frequency inverter; Pneumatic brake.
- 5.Lift system use the guide screw and nut devices, ensure the stable and reliable lifting drive with straight line displacement sensor, to control the accurate movement,to get the excellent building.
The linear guide rail lifting system is made up of the Standard straight bearing and round guide with heavy block balance, ensure the lifting movement stable.
- 6.Creel basket of E type machine is driven by nylon bevel gear and pneumatic tensioning device, the smooth and steady running ensure the speed consistency of the creel baskets. Cake basket of F type machine is driven by single motor and pneumatic tensioning device, and the creel basket motors equip with thermal protection; Improved parallel cake basket; the running speed is centralized controlled and adjusted through the frequency inverter.
- 7.Sectional package design (individual section and lift)is supplied for F type machine,shorten the erection time.
- 8.The yarn guided by pigtail and anti-ballooning ring.
- 9.Centralized oil supply with lubrication system, keep the enough lubrication of the powder sintered ring.

主要技术参数

The main technical parameters

项目 Item	单位 Unit	CGKV548E/CGKV548F (4kg)	CGKV549E/CGKV549F (8kg)
锭距 Gauge	毫米 mm	240	280
锭数 No.of spindles		96、120、144	96、120、144
升降动程 Traverse	毫米 mm	380	380
锭速 (负载) spindle speed	rpm	3000-6000	2400-5000
钢领直径 ring dia.	毫米 mm	φ 120/ φ 165/ φ 195	φ 165/ φ 216
送纱速度 Yarn feeding speed	米 / 分 m/min	70-350	70-350
适纺纱线范围 yarn count	tex	3 ~ 136	5.5 ~ 136
丝饼最大重量 Cake weight	Kg	12	12
丝饼最大直径 Cake dia.	mm	360	360
捻向 Twist direction		Z 或 S	Z 或 S
捻度范围 Twist range	捻 / 米 T/m	20-150	20-150
管纱卷装量 spindle yarn weight	Kg	8	8
钢领板升降速度 ring rail speed	米 / 分 m/min	0.1-3	0.1-3
丝筒传动方式 Creel basket drive type		CGKV548E: 锥齿轮传动 Bevel gear drive CGKV548F: 单马达驱动 Single motor drive per spindle	CGKV549E: 锥齿轮传动 Bevel gear drive CGKV549F: 单马达驱动 Single motor drive per spindle

3 CGKV550 系列玻璃纤维捻线机

3 CGKV550series Glass fiber twister



图 7—CGKV550 系列玻璃纤维捻线机
CGKV549 Series Glass Fiber Twister

产品介绍

用于经过初捻的玻璃纤维纱线退解后进行追加捻度再合股工序，并可用于加捻玄武岩、锦纶、涤纶、芳纶等混纺纤维。

产品特点

- 1、工业计算机集中控制或 PLC 集中控制：工艺参数触摸屏输入，定长自停，断电 1S 不停机，单锭断纱自停报警。
- 2、超喂绞盘式传动，保证张力恒定。
- 3、初捻气圈罩：采用不锈钢材质。
- 4、单锭初捻和复捻均采用光电式断纱自停器或机械式断纱自停器对纱线进行在线检测，保证纱线品质。
- 5、专业设计的电锭技术，初复捻均采用电锭结构，变频调速。
- 6、灵活的加捻股数转换，只需拨动旋钮即可实现 2、3、4、5 股纱线的加捻。

Introduction of product

It is suitable for twisting the multi-ply first-twisting glass filament fibers, and also apply to process hybrid yarns, such as basalt, PA, PET, Aramid etc.

Product features

1. Centralized control through industrial computer or PLC: input through the touch screen, pre-set length auto-stop. Nonstop when power off 1S, yarn breaking auto-stop for each spindle with alarm function.
2. The capstan type overfeeding drive device ensures the constant tension.
3. The balloon limiter for the first twist is made of the stainless steel material.
4. Both the first twisting and the second twisting adopt the photoelectric type yarn break sensor or mechanical yarn breaking automatic stop device to detect the yarns on-line, ensure the yarn quality.
5. Professional designed motor spindle technology for the first twist and the second twist, frequency control.
6. The flexible conversion for twisted strand number, switch the knob to twist the 2ply or 3ply or 4ply or 5ply.

主要技术参数

The main technical parameters

项目 ITEM	CGKV550A-2	CGKV550A-4	CGKV550A-6
锭距 Gauge	280	280	280
锭数 (max) No.of spindle	初捻 224, First twisting: 224 复捻 112, Second twisting: 112	初捻 448, First twisting: 448 复捻 112, Second twisting: 112	初捻 672, First twisting: 672 复捻 112, Second twisting: 112
升降动程 Lift	420	420	420
锭速 Spindle speed	2400-5000	2400-5000	2400-5000
钢领直径 ring dia.	φ 165/ φ 216	φ 165/ φ 216	φ 165/ φ 216
送纱速度 (米 / 分) Yarn feeding speed	7- 60	7- 60	7-60
适纺纱线范围 yarn count	11 ~ 272tex	11 ~ 544tex	11 ~ 816tex
捻向 Twist direction	Z or S	Z or S	Z or S
捻度范围 Twist range	喂入纱线捻度: 22-272 (Feeding yarn twist range) 复捻捻度: 50-300 (Second twist range)	喂入纱线捻度: 22-272 (Feeding yarn twist range) 复捻捻度: 50-300 (Second twist range)	喂入纱线捻度: 22-272 (Feeding yarn twist range) 复捻捻度: 50-300 (Second twist range)
并捻股数 No.of strand	2-4	2-4	2-6
管纱卷装量 (max)	8 kg	8kg	8 kg
机器尺寸 Overall dimension	18800x5300x2200mm	18800x6500x2200mm	18800x7100x2200mm

4 K3521 工业丝倍捻机

4 K3521 series Two-for-one twister



图 8—K3521 工业丝倍捻机
K3521 Series Two-for-one Twister

产品介绍

用于涤纶、锦纶、丙纶、芳纶、草丝等不同纤维的倍捻加捻，可适应于单丝、多合股、倍并等多种加捻方式。

Introduction of product

The machine is used for the TFO twisting of the filament such as PET,PA,PP, ARAMID, GRASS FIBER etc. which is suitable for the various twisting type such as twisting of single ply yarn, multi-ply yarn etc.

产品特点

- 1、单锭独立：锭子由独立的电机驱动，独立的横动，独立的卷绕和超喂，可以每锭独立工作及独立操作，安全方便。
- 2、输线速度最高 250m/min。
- 3、采用绞盘式超喂，调节纱线张力更平稳。
- 4、机器两侧独立运行，可加捻不同品种纱线。
- 5、本机触摸屏控制，可直接输入、修改、查看工艺参数、机器运转状态等信息。

Product features

- 1.Independent twisting position, the spindle, traverse, winding and capstan of position are driven by individual motor, each spindle position can be operated, safety and convenient.
- 2.High line speed: The line speed is Max. 250m/min.
- 3.Adopt the capstan type over-feeding device, regulate the yarn tension more stably.
- 4.Independent operating in two side of the machine, can twist different yarn.
- 5.Friendly human-computer, intelligentized control management system.

主要技术参数

The main technical parameters

型号 Type	K3521/ K3521A/K3521B	K3521C
锭距 (mm)Gauge	600/600/830	500
锭数 (锭)No.of spindles	120	120
机械锭速 Mechanical speed	3000-9000	3000-9000
适捻纤度 (DTEX)Yarn count	840-6000/210-840/6000-30000	840-6000
捻度范围 Twist range	30-500	70-500
最大卷取线速 (m/min) take-up speed	250	200
卷绕动程 (mm)traverse	254	254
捻向 Twist direction	S or Z	S or Z
卷取角 Cross angle	12°-20°	12°-23°
喂入筒子 Feeding bobbin	φ 280*254/ φ 230*150/ φ 280*254	φ 250*254
卷取卷装 (KG)Take-up package	12.5 / 8 / 12.5	10

5 K3523B 工业丝倍捻机

5 K3523B series Two-for-one twister



图 9—K3523B 工业丝倍捻机
K3521 Series Two-for-one Twister

产品介绍

用于涤纶、锦纶、丙纶、芳纶等不同纤维的倍捻加捻，可适应于单丝、多合股、倍并等多种加捻方式。

Introduction of product

The machine is used for the TFO twisting of the filament such as PET,PA,PP, ARAMID etc. which is suitable for the various twisting type such as twisting of single ply yarn, multi-ply yarn.

产品特点

- 1、横动采用伺服导丝系统，车头集中控制。
- 2、最高加捻线速度 120 米 / 分。
- 3、采用绞盘式超喂。
- 4、友好的人机界面，智能化控制管理。
- 5、机器两侧独立运行，可加捻不同品种纱线。

Product features

- 1.Adopt the centralized control servo guiding system on the headstock.
- 2.The line speed is Max.120m/min.
- 3.The over-feeding type is capstan.
- 4.Friendl human-computer, intelligentized control management system.
- 5.Independentoperating in two side of the machine, can twist different variety yarn.

主要技术参数

The main technical parameters

型号 Type	K3523B
锭距 (mm)Gauge	670
锭数 (锭)No.of spindles	120
机械锭速 Mechanical speed	3000-9000
适捻纤度 (DTEX)Yarn count	1000-10000
捻度范围 Twist range	70-500
最大卷取线速 (m/min)take-up speed	120
卷绕动程 (mm)traverse	254
捻向 Twist direction	S or Z
卷取角 Cross angle	12°-23°
喂入筒子 Feeding bobbin	φ 280*254
卷取卷装 (KG)Take-up package	12.5

6 K3501E 型直捻机

6 K3501E Direct Cabling corder



图 10—K3501E 型直捻机
K3501E Direct Cabling Corder



图 11—K3501E 型直捻机
K3501E Direct Cabling Corder

产品介绍

该机适用于锦纶、涤纶、芳纶丝、人造丝等的加工，用于生产对称结构的双股帘子线和工业用线，该机具有卷装大、能耗低、用工少、成品帘子线品质高等特点。帘子线适用范围广，可适用于轮胎帘子布、运输带、传动带、缆绳、土工织物等。

Introduction of product

The series direct cabling corder is mainly used for making 2-ply symmetric tire cords and industrial yarns from the filament such as PA, PET, RAYON etc. this machine is characterized by low energy consumption, less labour, high quality tire cords and large packages. The tire cord can be used for making tire cord fabric, conveyor belt, driving belt, rope etc.

产品特点

1. 智能化控制系统：

1.1 触摸屏设置并显示工艺参数，捻度、锭速、超喂比等参数可在触摸屏上设置更改，并能储存上百种工艺菜单，使工艺更换更高效智能。

1.2 应用各种传感控制技术，实现单锭通讯监控，监测锭速波动。

纱线张力在线监测控制系统。实现纱线张力监测和显示，断纱后给出单锭自停信号。

2. 张力控制装置：专利的新型匀捻器和磁滞式内、外纱张力器保证了内外纱的长度一致，张力控制精确。

3. 气弹簧纱架新结构，减少上纱时的冲击，运行平稳。

Product features

1. Intelligent control system:

1.1 The parameter such as twist and spindle speed and overfeeding ratio etc. could be set and changed on the touch screen, in which hundreds of menus could be stored, easy to change the technology.

1.2 Adopt various kinds of sensor control technology, to monitor the communication of per spindle position and the fluctuate of spindle speed. On-line monitoring system of yarn tension, realize the monitoring and display of yarn tension, sending individual spindle position auto-stop signal after yarn breaking.

2. Tension control device: The patent new type cord regulator and hysteresis type inner yarn tensioner and outer yarn tensioner ensure the length consistent between inner yarn and outer yarns after spinning, control the yarn tension more accurate.

3. The creel adopt the new gas spring structure, lessen the impact when loading the feeding package, and make the machine running stably.

4. 卷取、超喂系统：卷取辊为离合装置，断丝后单锭自动停止，同时锭子自停。超喂机构选配带电磁离合器结构，断纱后大超喂辊自停，避免缠纱。

5. 专业设计的电锭传动技术：

5.1 高效率，最高机械锭速 11000RPM。相对于龙带传动，生产效率提高 40% 以上。

5.2 高品质，锭间速差小；运转平稳，纱线品质好。

5.3 低损耗和减少用工，维护简单。

6. 满管自停及自动输送系统

7. 通风风道，降低热负荷。（选配）

8. 相对于市场上其它机型，由于采用了外纱张力智能控制系统，节能 10%—40%

9. 热负荷减少 40%。

10. 由于优化了气圈尺寸，噪音减少 20%—40%。

11. 新型的内纱张力和锭罐，有效保证气圈的形态，减少断丝，提高满管率。

4. Take-up and capstan over-feeding system: The take-up roller with clutch stop when the motor spindle stop after yarn breaking, it is favor for the take up package quality. Overfeeding device equip with electromagnetic clutch, when breaking yarn, The big capstan roller auto-stop, avoid tangling twisted yarn.

5. Professional designed motor spindle technology:

5.1 High efficiency, Max mechanical speed is 11000rpm. Compare with the tangential belt drive, it can improve the production efficiency more than 40%.

5.2 High quality, the speed fluctuate between the spindles is little; ensure the machine smooth and steady running, to achieve the high quality twisted yarn.

5.3 Low wear and tear and less labour, easy to maintain .

6. Auto-stop by setting length and automatic conveyor belt system

7. Ventilation duct can reduce the thermal load (optional)

8. Compared with other traditional direct cabling machine models, Energy saving is up to 40% , due to adopt the outer yarn tension intelligent controlling system.

9. Head load decreased by up to 40%, thanks to the reduced power consumption.

10. The noise level reduced by up to 40% due to optimized thread balloon.

11. The new type inner yarn and spindle pot ensure the optimized shape of thread balloon, reduce the yarn breaks significantly, improve the full package ratio.

主要技术参数

The main technical parameters

参数名称 Data name	规格 spec.
锭距 (mm) Gauge (mm)	450 or 500
机械最高锭速 (rpm) Mechanical spindle max speed (rpm)	11000
锭数 (锭) No. of spindle	168
捻度范围 (T/m) Range of twist	150~ 600
适捻纤度 (涤纶) Yarn count (polyester)	1100dtex×2~2200dtex×2
卷取卷装 (mm) Take-up package	Φ350×254
锭子规格 (mm/inch) Spindle Specification	230×10, 230×12
卷绕速度 (mm/min) Take-up Speed	10~40
捻向 Twist direction	S or Z

7 K3503B 三股直捻机 7 THREE-PLY DIRECT CORDER



图 12—K3503B 三股直捻机
K3503B Three-ply Direct Corder

产品介绍

主要用于锦纶、涤纶等化纤长丝生产三股或双股帘子线及工业用线，是短流程生产三股和双股帘子线及工业用线的理想机型。

Introduction of product

It is mainly used for making 2-ply or 3-ply tire cords or technical yarns such as PA, PET etc. it is ideal short-procedure machine.

产品特点

1. 实现三股帘子线和工业用线的一步法工艺。
2. 兼容双股直捻机功能。
3. 大卷装（12KG），高品质三股帘子线。
4. 在触摸屏上可进行双股或三股的程序转换，机器两边可分别加捻不同品种及规格的双股或三股帘子线及工业用线。
5. 电锭采用同步电机，品质更好，气圈更稳定。

Product features

- 1.It can twist 3-ply tire cords and technical yarns in one step.
- 2.It has all the features of twisting 2-ply tire cords.
- 3.Large packages: High quality 3-ply tire cords.
- 4.Programming transformation can be used between 2-ply and 3-ply by touch screen.two sides can twist different kinds of 2-ply,3-ply tire cord and technical yarns.
- 5.The synchronous motor is used for spindle motor,better quality and more stable balloon.

主要技术参数

The main technical parameters

参数名称 Data name	规格 spec.
机械最高锭速 (rpm) Mechanical spindle max speed(rpm)	10000
锭数 (锭) No.of spindle	160
捻度范围 (T/m) Range of twist	150~ 600
适捻纤度 (涤纶) Yarn count (polyester)	1100dtex×2~2200dtex×2
卷取卷装 (mm) Take-up package	Φ350×254
锭子规格 (mm/inch) Spindle Specification	230×10, 230×12
卷绕速度 (mm/min) Take-up Speed	10~40
捻向 Twist direction	S or Z

8 K3507A 细旦丝直捻机

8 K3507A Direct Cablecorder for fine denier yarn



图 13—K3507A 细旦丝直捻机
K3507A Direct Cablecorder For Fine Denier Yarn

产品介绍

K3507A 细旦丝直捻机用于锦纶、涤纶、人造丝等化纤长丝生产对称结构的双股民用丝用线，适用于缝纫线、高强超细旦民用线等行业。

Introduction of product

K3507A Direct corder for fine denier yarn is mainly used for making 2-ply symmetric yarns from the filament such as PA, PET, etc. it is suitable for the sewing thread, high strength fine denier filament etc.

产品特点

- 1、新式内纱张力控制，更好的调节张力的一致性。
- 2、超喂式送纱。
- 3、灵敏的断纱检测装置。
- 4、采用电锭技术，最高工艺速度 10000rpm。
- 5、所有技术参数通过触摸屏输入并显示，采用数字式变频器调节锭子转速。

Product features

1. Adopt the new inner yarn tensioner to adjust the yarn tension consistent .
2. Capstan type roller delivery yarn device.
3. Sensitive yarn break detector.
4. Adopt motr spindle technology, the mechanical speed is up to 10000rpm.
5. All techncal data are input and displyed on the touch screen, the digital frequency inverter is used for regulating the spindle speed.

主要技术参数

The main technical parameters

参数名称 Data name	规格 spec.
锭距 (mm) Gauge(mm)	400
机械最高锭速 (rpm) Mechanical spindle max speed(rpm)	11000
锭 数 (锭) No.of spindle	120
捻度范围 (T/m) Range of twist	150~ 600
适捻纤度 (涤纶) Yarn count (polyester)	167dtex×2~500dtex×2
卷取卷装 (mm) Take-up package	Φ260* 254

经纬津田驹纺织机械（咸阳）有限公司

JINGWEI TSUDAKOMA TEXTILE MACHINERY (XIANYANG) CO., LTD.

公司名称：经纬津田驹纺织机械（咸阳）有限公司

Company Name: JINGWEI TSUDAKOMA TEXTILE MACHINERY (XIANYANG) CO., LTD.

产品领域：纺织机械

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经纬津田驹公司为保证产品稳定性和可靠性，关键零件全部采用日本津田驹原装进口。目前经过广大用户几年的使用，用户对ZAX-GS系列产品的稳定性、可靠性、品种适应性等高度认可。经纬津田驹公司依托津田驹品牌优势和技术优势，以及经纬股份和津田驹两个上市公司的资源优势，使织机质量达到了日本津田驹的质量标准。

经纬津田驹公司喷气织机产品已销往印尼、印度等国家，并与中亚、东南亚等多国客户保持着贸易联系，待客户条件成熟可实现海外多点销售，逐步扩大海外销售的点和面。今后，经纬津田驹公司继续采取产品市场上推广一代、技术研发储备一代的理念，产品研发方向继续朝着高速、自动化、智能化和环保等方面发展方向。

Product field: textile machinery

JINGWEI TSUDAKOMA TEXTILE MACHINERY (XIANYANG) CO., LTD. is a joint venture between JINGWEI Textile Machinery Co., Ltd and Japan's TSUDAKOMA Co., Ltd., which was set up in August, 2013. The company is located at Xianyang City, Shaanxi Province, covering an area of 21823 square meters. The total investment of the project is 378 million yuan RMB, and the first stage project investment is 126 million yuan, in which the JINGWEI shares account for 51% of the shares. TSUDAKOMA has a 49% stake. Enterprise leading product ZAX-GS series air-jet loom, with high speed, stability, versatility, high added value, energy saving and other excellent performance.

JINGWEI TSUDAKOMA Company in order to ensure product stability and reliability, all key parts are imported from Japan. At present, after several years of use by the vast number of users, the users have highly recognized the stability, reliability and variety adaptability of ZAX-GS series products. JINGWEI TSUDAKOMA Company relies on the brand advantages and technical advantages of TSUDAKOMA. As well as Jingwei shares and TSUDAKOMA two listed companies resource advantages, so that the quality of the loom up to the quality standards of Japan. Up to now,

JINGWEI TSUDAKOMA's air-jet loom products have been sold to Indonesia, India and other countries, and maintain trade ties with customers in Central Asia and Southeast Asia. In the future, JINGWEI TSUDAKOMA continues to adopt the concept of promoting a generation of products in the market and a generation of technical R & D reserves, and the direction of product development continues to develop in the direction of high speed, automation, intelligence and environmental protection.

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1 织机 1 Loom



图 1 ZAX-GSi 在用户厂 1



图 2 ZAX-GSi 在用户厂 2



图 3 ZAX-GS 在用户厂 1



图 4 主机效果图 1



图 5 主机效果图 2

产品介绍

ZAX-GS (i) 织机备齐了可以织造各种织物的内容丰富的各种装置，对于不断变化的多色、宽幅、高附加值的织物，以及从普通衣料到牛仔布、纯毛面料和长丝织物，ZAX-GS (i) 织机可织造各种高品位的织物。

Introduction of product

The ZAX-GS(i) is provided with diversified equipment to weave various fabrics. In the fields of multi-colored , wide ,and valueadded fabrics. The ZAX-GS(i) excellently weave a wide range of fabrics from general apparel fabrics to denim, worsted fabric ,and filament fabric.

主要技术参数

The main technical parameters

箱幅 (cm) Reed space (cm)	190,210,230,250,280,340,360	
	公称箱幅: Nominal Useful	0~60cm(190~250cm)
	公称箱幅: Reeding width	0~80cm(280cm 以上)
织机范围 Weavable range	短纤: Spun	Ne100-Ne2.5
	长丝: Filament	22dtex-1350dtex
纬纱选择 Filling selection	2 色、4 色、6 色、8 色 2 colors, 4 colors, 6 colors, 8 colors	
动力 Driving	超启动马达直接驱动 Direct start of rush-start motor drive PSS 可编程启动 PSS Programmable start 按钮开关两手操作 Push-button operation with both hands 电机定额 2.7kw, 3.0kw, 3.7kw, 5.5kw Motor capacity 2.7 kW, 3.0 kW, 3.7 kW, 5.5 kW	
引纬 Filling insertion	引纬节能自动控制 Energy-saving control of weft insertion 新型集流腔一体型电磁阀 New solenoid valve with built-in manifolds 副喷嘴各色分别喷射定时控制 Independent sub-nozzle timing control by color 副喷嘴支援控制 Sub-nozzle boosting system AJC-S 引纬自动控制, 第一纬控制 AJC-S Auto Jet Controller, First pick control ACI 显示空气消耗量 Air consumption indicator 入纬率: 2000m/分 Weft insertion rate: 2000 m/min	
开口 Shedding	曲柄式平开口: 4 片综框 Crank plain shedding: Shaft number: 4 积极式凸轮开口: 最多 8 页综框 Positive cam shedding: Shaft number up to 8 消极式凸轮开口: 最多 8 页综框 Negative cam shedding: Shaft number up to 8 多臂开口 (电子式, 积极, 下置): 最多 16 页综框 Dobby shedding (Electronic, Positive, Floor-mounted): Shaft number up to 16 大提花开口 Jacquard shedding	
卷取 Take-up	边盘直径 Flange diameter	800mm, 914mm, 1000mm
	最大卷布直径 Maximum on-loom take-up diameter	600mm(凸轮开口, 多臂开口, 大提花开口)、520mm(曲柄开口) 600mm (Cam, dobby, Jacquard shedding), 520mm (Crank shedding)
	纬密范围 Pick density	ETU: 9.8~118.1 根 / 寸 (25~300 根 / 寸) ETU: 9.8 ~ 118.1 picks/cm (25 ~ 300 picks/inch)
	织布长度计数 Woven length counter	在 Navi 键盘上显示 (米、码), 带定尺停车功能 Display on Navi-Board (meter, yard), with preset counter function
	边撑器 Temple	上置式 (织前倾斜规格) Top-mounted type (Inclined cloth passage toward loom front)
打纬 Beating	曲柄式多箱打纬机构: Crank type beating, multiple sley sword beating: 4 节连杆打纬 (箱幅 230cm 以下) 4 links (Reed space up to 230 cm) 6 节连杆打纬 (箱幅 250cm 以上) 6 links (Reed space 250 cm or more) 配备摇轴中间支撑架 Intermediate rocking-shaft supporter	

停车装置 Stop motion	纬纱断纱 Filling yarn	反射式探纬器 Reflective weft feeler
		单头式、双头式 One-head system, two-head system
	经纱断纱 Warp yarn	电气接触式 6 停经架, 断经单列显示 Electric 6-row contact bar system, Row number indication function
	其他 Others	绞边纱、纱端处理纱断头停止、SGS 安全保护传感器 Stop motion for selvage and catch cord yarn, SGS safety guard sensor
	停车原因显示 Stop cause indication	Navi 键盘上显示信息 Indication by message on Navi-Board
自动化 Automation	织造导航系统 Weave Navigation System	多功能 4 色停车显示灯 4-color multi-function indication lamps
	织机监控系统 Loom Monitoring System	
	带 Navi 键盘 (条件设定、自动控制、监控、自我诊断功能) With Navi-Board (Data setting, automatic control, monitoring, self-diagnosis function)	

产品特点

- (1) 实现超高速并节省能源的引纬系统：节能设计，耗气量的削减，独立调压控制，AJC-S 引纬自动控制，ACI 显示空气消耗量
- (2) 高速补强型松经装置，外置式松经装置，运转纬密交换，APF 自动对梭口，PSC 可编程序调整速器
- (3) 可以保持均匀的经纱张力的 ELO 电控送经装置，ETU 电控卷取装置，ZTN(气动折入边) 装置，ZT 机械折入边装置，APR-C 自动补纬装置，拉伸喷嘴，PSC 可编程序调整速器，三眼探纬器
- (4) 织造导航系统：ZAX-GSi 织机进一步扩大和强化了自动设定功能和简易设定功能，使各种设定项目更具体化、更简单化。
- (5) TLM 织机监控系统在 ZAX-GSi 织机上利用标准装备 LAN 接口的以太网作为 LAN 的基础，可以通过计算机简便地进行启动。

Product features

- (1) Supreme weft insertion system realizes ultra-high speed operation while saving energy: Energy savings, Reduction in air consumption, Independent pressure regulating control, AJC-S auto jet control. ACI display air consumption.
- (2) High speed type easing device, External warp loosening device, Operation weft density transform, APF Automatic Pick Finder PSC Programmable Speed Control.
- (3) Electronic Let-Off (ELO) for constant warp tension, ETU Electronic Take-Up, ZTN needle-less tuck-in device, ZT tucker, APR-C (Automatic defective Pick Remover), Stretch nozzle, PSC Programmable Speed Control. Three-eye weft detector.
- (4) Weave Navigation System: the ZAX-GSi expands and enhances automatic setting functions for more detailed and easier operation.
- (5) The TLM Loom Monitoring system can be installed without difficulty based on the Ethernet through a LAN port, standard on the ZAX-GSi. A special computer is not necessary for the installation.

无锡宏大纺织机械专件有限公司

Wuxi Hongda Texparts CO., LTD.

公司名称：无锡宏大纺织机械专件有限公司

Company Name: Wuxi Hongda Texparts CO., LTD.

无锡宏大纺织机械专件有限公司（原无锡纺织机械专件厂）是全国纺织行业 30 强，江苏省高新技术企业、ISO9001:2000 国际质量认证企业，企业拥有进出口经营权，占地面积 27345 平方米，资产总额 1 亿元，职工总数 357 人（具有高中级职称占职工总数的 20%），企业开发能力强，技术装备先进，综合效益良好。

企业主要产品：系列摩擦式假捻器及其配件、系列假捻器轴承、系列纺织锭子轴承、系列锭带张力盘、系列包覆锭子、系列长、短丝倍捻锭子等。这些高精度、高速回转类纺织专件产品具有较高的技术含量、技术性能领先、在国内外具有较高的市场占有率。产品行销全国 24 个省、市、自治区、并随主机出口、在用户中享有良好信誉。

企业贯彻 ISO9001:2000 国际质量标准，以“XFZ”无锡专件为品牌，以“搏动起纺织机械的心脏”为经营理念，以“全力奉献中国纺织现代化”为己任，以优质的产品，一流的服务，满足客户需求。

Being listed as Hi-Tech enterprises in Jiangsu Province, Wuxi Hongda Texparts CO.; LTD is ranked among the 30 strongest enterprises of China's textile industry and granted the authentication of ISO9001:2000 certification. Being authorized the self-support import-export power, the enterprise has a floor area of 27,345 m² with total assets of 100 million RMB and 357 employees (20% of them own senior and medium technical titles). We are endowed with strong research and development capabilities, advanced production facilities and therefore have gained remarkable comprehensive profits.

Main products of our enterprise include: series friction false twister and auxiliaries, series false twister bearing, series spindle bearing, series spindle tape tension pulley, series covering spindle, series twisting spindle, etc. These textile part of high accuracy and high speed rotation are inherited with up-to-date technology, and snatch a significant market share in domestic market. The products are sold well to 24 province, cities and autonomous regions and exported as parts with some textile machines. The series textile parts enjoy good reputations among customers.

By implementing ISO9001:2000 international quality standard in all-round way, we will work to our utmost limits to satisfy customers with best products with best products and top-quality service. We will hold aloft the brand of "xfz Wuxi TEX-Parts", exercise the management thoughts of "beat the heart of textile machinery" and shoulder the responsibility of "whole-heart contribution to the modernization of china's textile machinery", and step into a brand-new century through reform and renovation.

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1 系列摩擦式假捻器 1 SERIES OF FRICTION TWISTERS



产品介绍

系列摩擦式假捻器配套于系列高速弹力丝机，主要用于聚预取向丝或牵伸丝的假捻变形。系列摩擦式假捻器采用德国巴马格公司摩擦式假捻器技术生产制造。假捻器结构为三轴，多盘式。导入盘和工作盘采用全陶瓷盘或者聚氨酯盘，工作盘的配置根据不同的工艺要求进行多种组合，该系列假捻器S捻Z捻转化简单，结构合理，使用维护方便。

Introduction of product

Series of Friction Twisters are auxiliary parts of high-speed draw-texturing machines of series, mainly used for false-twist texturing of POY and drawn yarn. Series of Friction Twisters are designed in 3-shaft and multi-disk structure, adopting the technology of friction twisters of Barmag (Germany). The guiding and working disks are made of ceramic or polyurethane, and are assembled according to different technology requirements. The series are easy to transform between S and Z twisting, rational in structure and easy for maintenance.

主要业绩

目前年产 40 万套。

Main achievements

At present, the annual output is 400,000 sets.

2 系列包覆锭子

2 SERIES OF COVERING SPINDLES



产品介绍

该系列锭子是包覆机上的关键部件，用于将真丝、涤纶等化纤长丝及棉花等纤维螺旋形缠绕在氨纶芯线上（双色或单色）使包覆丝既具有氨纶的弹性，又具有外包丝的外观及手感，为生产弹性机织物、针织物提供理想的包覆丝原料。锭杆由两只专用进口轴承支承，并有上、下阻尼橡胶支撑，能吸振降噪，高速型包覆锭子的结构合理，在其内腔形成特殊的气路，由空气冷却轴承。上、下联接套能将直孔筒管的径向和轴向固定，操作方便。

主要业绩

目前年产 60 万套。

Introduction of product

As a key part of covering machine, the series are used for winding the chemical fibres like silk, polyester filament or cotton on the spandex core yarn (single color or double colors) in helix. In this way, the covering yarn will get not only the elasticity as spandex but also the appearance as the outsourcing yarn, which can supply perfect covering yarns for producing elastic woven and knit fabric. The spindle is supported by two imported special bearing and upper and lower rubber damps, which can reduce shock absorbing and noise reduction. The high-speed covering spindle has a reasonable structure, which is provided with a special air loop inside its inner chamber for air cooling of the bearing. Upper and lower coupler can fix the yarn guide cylinder in radial and axial direction which is easy to be operated.

Main achievements

At present, the annual output is 600,000 sets.

3 系列花式捻线锭子 3 SERIES OF FANCY YARN TWISTING SPINDLES



产品介绍

系列花式捻锭子是花式捻线机的配套件，主要用于结子纱、竹节纱、螺旋纱等多种纱的捻制。小卷装、功耗低，适用于小批量多品种的生产。结构上采用减震轴承，结构振幅低，润滑条件好。

Introduction of product

Being an auxiliary part of fancy yarn twisteters, the series of fancy yarn twisting spindles are mainly used for the twisting of boucle yarn, flake yarn and spiral yarn. Small package, low power consumption and suitable for the production in low volume and rich varieties. Adopting bearings with shock absorbing, low vibration and good lubricating conditions.

主要业绩

目前年产 10 万套。

Main achievements

At present, the annual output is 100,000 sets.

4 DZ 系列纺锭轴承 4 DZ SERIES OF SPINDLE BEARINGS



产品介绍

DZ 系列纺锭轴承适用于棉、毛、麻、绢、化纤等锭子配套使用。采用向心短圆滚柱，承受径向载荷大。制造精度高，适应高速运转。最高可达 18000 转 / 分。结构简单，动力消耗小。维修保养方便。

Introduction of product

DZ Series Spindle Bearings are applied to the spindles for cotton, wool, linen, spun silk and chemical fiber. Adopting centripetal cylindrical roller for large radial loading. High precision for high-speed rotation up to 18,000 rpm. Simple structure and low power consumption. Easy maintenance.

主要业绩

目前年产 1200 万套。

Main achievements

At present, the annual output is 12,000,000 sets.

黄石经纬纺织机械有限公司

HUANGSHI JINGWEI TEXTILE MACHINERY CO.,LTD.

公司名称：黄石经纬纺织机械有限公司
Company Name: HUANGSHI JINGWEI TEXTILE MACHINERY CO.,LTD.

四十多年来一直致力于大型成套印染机械的研发和制造。产品畅销国内并远销世界三十多个国家和地区，在国内外市场享有较高声誉。被国内外用户誉为“印染机械，首推黄石”。

黄石经纬纺织机械有限公司，多次圆满完成国家级、省部级重点科技攻关项目，多个产品和项目先后获得国家、省、部、市科技进步奖和新产品奖，连续多年被湖北省、黄石市授予省级、市级“重合同、守信用”企业。公司为湖北省高新技术企业，省级技术中心，在中国印染机械行业首家通过 ISO9001 国际质量体系认证。

质量第一，用户至上，黄石经纬纺织机械有限公司愿与您精诚合作，携手并进，共创美好明天。

Huangshi Jingwei Textile Machinery Co.,Ltd (former Huangshi Textile Machinery Factory) is one of the well-known companies in the field of Printing & Dyeing industry.It has been devoting herself to developing,designing and manufacturing of the Printing & Dyeing Machinery in recent 40 years.Main products:Mercerizing Series,Printing Series,Continuous Dyeing Series,Scouring,Bleaching & Desizing Series,Long Loop Steamer and General P&D Units. Our products have been selling to domestic and overseas markets, enjoying long standing reputation,being honored "Printing & Dyeing Machinery,Huangshi's Ranks First".

Huangshi Jingwei Textile Machinery Co.,Ltd has completed more projects of state and provincial/ministry levels,in which some have been honored Science & Technology Progress and New Product Awards by all levels,and also been honored the enterprise of "valuing contract,keeping promise". It is also a Hi-tech enterprise and Provincial Technology Center, the first one to pass certificate of ISO9001 Quality System.

Quality first, customer foremost , Huangshi Jingwei Textile Machinery Co.,Ltd would like to cooperate with you in the long term,and create a better future together with you.

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1 JWLM1388 型圆网印花机

1 JWLM1388 ROTARY SCREEN PRINTING MACHINE

产品介绍

本产品适用于各种天然纤维、化学纤维及其混纺针、机织物的印花。是黄石经纬纺织机械有限公司自行设计生产的一款多用途新型印花机。

主要技术参数

公称宽度 (mm) : 1600 ~ 3200
最大印花宽度 (mm) : 1400 ~ 3000 ;
公称速度 (m/min) : 4 ~ 80
圆网周长 (mm) : 640; 726; 820; 914; 1018;
印花套色数: 12 套色刮刀或磁棒
对花精度: 相邻 $\leq 0.1\text{mm}$, 累计 $\leq 0.2\text{mm}$
热源: 载热油, 蒸汽, 天然气
传动方式: 交流电机变频调速, 圆网独立伺服传动。

设备流程

平幅进布 (吸边器加对中装置, 主动进布辊, 刷毛吸尘装置, 弧形板加热) → MA1388 印花机 → 五节 JWM1322Y 圆网烘干机 → 平幅落布

产品特点

- (1) 采用松式进布方式, 可同时适应针织物或机织物的印花要求;
- (2) 机架采用积木式整体框架, 双层撑梁结构, 机架更加厚重牢固;
- (3) 网传动采用国际知名品牌的交流伺服传动控制技术, 圆网控制精度大大提高, 运行更加平稳, 成品率更高;

Introduction of product

This range is used for printing woven and knitted fabrics of all nature fiber. It is a multi-purpose new printing machine designed and produced by Huangshi Jingwei Textile Machinery Co., Ltd.

The main technical parameters

Nominal width(mm):1600~3200
Working width(mm): 1400~3000
Designed speed(m/min): 4~80
Circumference of screens(mm): 640;726;820;914;1018
Number of colors: 12 color scrapers or magnetic rods.
For flower accuracy: adjacent less than 0.1mm, cumulative less than 0.2mm
Heat source: Heat-transfer oil, steam, natural gas
Transmission mode: AC motor variable frequency speed regulation, rotary mesh independent servo drive.

Equipment flow

Flat sheet(The suction device is equipped with the alignment device, the feeding roller, the brush suction device and the arc plate are heated) → Printing machine of MA1388 → Five cylinder dryer of JWM1322Y

Product features

- (1) Fabrics are in-feed with a tension-free system, which can meet the requirements of both woven and knitted fabrics.
- (2) Complete frame structure, double support column to ensure the printing section stable.
- (3) The screen driving system adopted world-known brand A.C servo motor control technology, which creates better improved screen control precision, steadier operating and higher yield.

(4) 每花位两侧均有全数字对花及操作系统，可方便实现横向、斜向、纵向三轴方向的对花及全机的升、降等操作；

(5) 该机配有二种刮印装置供用户选择（磁棒刮印装置，刮刀刮印装置）可满足不同品种、不同花型的印花需要；

(6) 水溶胶上胶装置：能够精确和连续地调整上胶厚度，保证上胶更加均匀、光亮、并减少维护工作；

(7) 导带清洗装置，采用毛刷辊、海绵擦洗和橡胶刀相结合的清洗方式，抽屉式水洗小车可实现自动进出，可实现循环水洗，节约水源；

(8) 导带运行路线设计合理，正面无任何接触辊筒，拐点少，有利于导带的平稳运行及上胶的均匀并大幅提高导带寿命；

(9) 全新的疏浆结构：导带两侧下沿设有接浆槽，便于浆料的清洗与回收，减少了浆料对机台和导带的污染，更加清洁环保，减少机器腐蚀；

(10) 导带张紧采用电动张紧方式，确保张力控制更加均匀，准确：有效避免人员调整的误操作；

(11) 主操作面采用 32 位真彩触摸式显示屏，能直观反映生产过程，界面友好可实现人机对话，可便捷的进行参数修改、设置等工作；

(12) 简单和友好的操作界面易于理解；

(13) 设备标准配置配有进口品牌 PLC、控制器、变频器、控制面板和触摸屏；

(14) 每一个印花座两侧配操作面板，传动侧泵任意位置都可操作设备，可最大限度的减少人员配备，以便正常开机时的人员巡视，印花工艺可方便调整、记录和自动重复。

(4)Both sides of each printing position is equipped with the digital registration and operation system making the horizontal,diagonal,longitudinal registration and the up/down or stop of the whole machine more convenient.

(5)The machine is equipped with two printing systems magnetic type and blade type,option for customer) to meet the printing requirements of different kinds and styles.

(6)The gluing device can adjust the thickness of gluing precisely and continuously,ensuring the gluing evenly and brightly,lessening the maintenance.

(7)Blanket washing device is equipped with brushing roller/sponge and rubber blade to clean the blanket and the washing device can be in and out auto-atically to save water.

(8)Blanket running route is well-designed,ensuring the upper side zero contact with the roller,Less bending of the blanket benefits the stable operating and even gluing.

(9)Newly paste collecting structure:pasto collecting trough on both sides of the blanket to prevent the paste from damaging the machine.

(10)Electric tension style guarantees the tension control more even and accurate.

(11)Main operation interface uses colorful PLC touch screen, which can reflects the producing process directly. Friendly machine operations realize communication through operator and machine, making the modifying and setting of specification convenient and fast.

(12)Easy and friendly machine operations, high efficiency and low consumption.

(13)Imported brands PLC.controller.inverter.control panel and touch screen.

(14) Concise and understandable operation interface

(15)Printing can be adjusted.recorded and automatically repeated conveniently through the operation interfaces equipped on each side of the printing heads.

(16)Double operation panel,operate the machine at any position on pump side.it can achieve less man power.also the printing process can be copied/adjusted and recorded.

主要业绩

- | | |
|-------------------|------|
| 1. 四川南充嘉美纺织印染有限公司 | 12 台 |
| 2. 山东愉悦家纺有限公司 | 10 台 |
| 3. 山东海天印花有限公司 | 12 台 |

Main achievements

- | | |
|---|----|
| 1.Sichuan Nanchong Jiamei textile printing and dyeing Co., Ltd. | 12 |
| 2. Shandong happy home textile Co., Ltd. | 10 |
| 3. Shandong Haitian Printing Co., Ltd. | 12 |

武汉纺友技术有限公司

Wuhan Texmate Technology Co. Ltd.

公司名称：武汉纺友技术有限公司
Company Name: Wuhan Texmate Technology Co. Ltd.

产品领域：

1. 互联网新技术研发：VR/AR/3D/AI 新技术在纺织及纺织工业装备设计开发、制造与远程运营管理、纺织厂生产流程设备配套和虚拟选型中提供解决方案，以及系统定制开发，如开发纺织成套设备交互式展示、远程运营管理系统；

2. 门户网站和电商平台：纺友网、中国纺机网、经纬纺机专备件商城、纺机商城、淘纱网等；

3. 解决方案：基于数字化纺织企业新营销解决方案——新链

武汉纺友技术有限公司（以下简称纺友）成立于 2014 年 9 月，创意研发团队设立在武汉·中国光谷，由经纬纺织机械股份有限公司（A 股代码：000666）控股，采用混合所有制经营模式，自公司成立以来，深度整合行业资源，一方面从事纺织全产业链电商平台、行业门户网站开发运营和新媒体推广运营方面业务，主要包括开发运营中国纺机选型导购平台“纺机商城”、纺机专备件商城“经纬纺机专备件商城”和纺织专业资讯网站“中国纺机网”，和纺织行业资讯门户、全产业链在线交易的电商平台“纺友网”，以及新媒体推广运营等业务，是业内最具影响力的专业互联网开发运营企业；另一方面通过 3D Unity、VR 虚拟现实和 AR 增强现实、AI 人工智能等计算机技术的运用，为纺机和装备生产企业提供设备研发设计（3D 建模）、生产制造（3D 打印）以及 AR 远程诊断维修、故障预警等、纺织工厂车间的生产流程布局及设备管理等环节提供整体解决方案，致力于通过“纺织+工业互联网”来推动中国纺织产业的转型升级。同时，纺友也围绕纺织全产业链开发运营纺织、纺机门户网站、B2B 交易电商平台以及新媒体小程序开发等开展业务，从业务链上形成闭环，实现成熟运行的纺织业系统解决方案。

2016 年公司先后获得高新技术企业认证、瞪羚企业认证，由工信部、商务部、国资委和发改委联合评定的“中国互联网电商企业诚信企业”荣誉以及东湖高新区“互联

1. Internet New Technology Research and Development: provides VR/AR/3D/AI solution for textile machinery manufacturers and textile mills in equipment design and development, manufacturing and remote operation management of textile machinery & mills, production process equipment matching and virtual selection, and system customization development, such as the development of interactive display of complete set of textile machinery and remote operation management system;

2. Portal Website & E-commerce platform: Texmate Network (www.fuz.com.cn), China Textile Machinery Network (www.ttmn.com), Textile Machinery Mall (www.ttfj.com), Jingwei Spare Parts Mall (beijian.ttfj.com), Taosha Yarn B2B website (www.taosha.co), etc.;

3. Marketing Solution: New Marketing Solution for Digital Textile Enterprises (New Chain, www.co-links.com)

Wuhan Texmate Technology Co., Ltd. (hereinafter referred to "TEXMATE") was found in Wuhan "China Optical Valley" by Jingwei Textile Machinery Co., Ltd (Stock code: 000666) in September 2014. In order to deeply integrate textile industry resources, TEXMATE engaged in the e-commerce platform of the whole textile industry chain, the update and operation of textile industrial portal websites and the operation of new media promotion since its establishment. Mainly includes operating textile machinery selection platform "Textile Machinery all", textile machinery spare parts mall "Jingwei Textile Machinery Spare Parts Mall" and textile professional information website "China Textile Machinery Network", and the textile industry information online trading portal, the whole industry chain of e-commerce platform "Texmate Network", as well as new media marketing operation business. TEXMATE is one of the most influential professional internet development & operation enterprise in textile industry. On the other hand, adopts 3D Unity, AR, VR & AI computer technology for assisting textile machinery and equipment manufacturers to provide equipment design (3D modeling), production (3d printing) and AR remote diagnosis, maintenance and fault early warning service. TEXMATE also provides overall solution of production process layout and equipment management to textile mills, devotes to bring "Internet+ Textile industry" concept to promote transformation and upgrading of China textile industry. At the same time, TEXMATE also operates textile & textile machinery portal site, B2B trading e-commerce platform, WeChat applets development and other business around the whole textile industrial chain, forming a closed loop from the business

网+”示范应用项目荣誉。公司团队围绕纺织全产业链电商平台建设，获得了14项计算机软件著作权并通过了双软认证。

chain to realize mature operation of textile industry system solutions. In 2016, TEXMATE has obtained the certification of high-tech enterprise and the certification of gazelle enterprise, the honor of “China Internet E-commerce Enterprise Credit Enterprise” was jointly assessed by the Ministry of Industry and Information Technology, the Ministry of Commerce, the State-owned Assets Supervision and Administration Commission and the National Development and Reform Commission. and the “Internet +Demonstration Application Project” of Wuhan East Lake High-tech Development Zone. TEXMATE team has obtained 14 computer software copyrights and passed the dual-soft certification around the construction of the e-commerce platform of the textile industry chain.

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1 网上纺机展 + 全流程交互式体验平台

1 Online Textile Machinery Exhibition & Full Process Interactive Experience Platform



图 1— 交互式平台

产品介绍

网上纺机展是中国纺机集团借力互联网传播便捷的优势，应用互联网+的思路开展营销创新，着手搭建旗下纺机产品网上展览平台。根据纺机产品特点，利用简洁的文字、多角度图片、关键动作视频等方式在线向纺织行业客户提供产品展示，让纺织行业客户通过互联网，坐在电脑前或使用智能手机，无时间限制，随时浏览中国纺机集团产品。通过对网展产品的网上展示、推广，并促进线下咨询和交易。向行业客户提供一个专业、高效、便捷的网上展览展示的展台。自推出以来，通过网上纺机展，有效减少了中纺机集团的营销费用和市场推广效率。

网上纺机展上有六大板块的展示：棉纺设备展区、化纤设备展区、非织造设备展区、印染设备展区、织造设备展区、专件展区。每个展馆因其独特性而采用不同的技术

Introduction of product

The online textile machinery exhibition system is a convenient platform to exhibit all the textile machinery of China Textile Machinery (Group) Co. Ltd (hereinafter referred to "CTMC"), which try to leveraging the advantages of convenient internet communication, using the concept of Internet + to carry out marketing innovation. According to the characteristics of textile machinery products, we provide online products exhibition to textile industry customers by means of simple text, multi-angle pictures, key action videos, etc., allowing textile industry customers to sit in front of computers or use smart phones via Internet at any time to browse CTMC's products. To provide industry customers with a professional, efficient and convenient booth for online exhibitions, via online display and promotion of online products, offline consulting and trading can be promoted. Since its launch, the online textile machinery exhibition has effectively reduced the marketing expenses and marketing efficiency of CTMC.

There are six major sections on the online textile machinery exhibition:

表达方式。3D 透视、VR、Flash 动画等技术，真实还原纺织机械设备运转细节，充分展现每一台纺机独特的设计、构造及工作流程和工艺流程搭配。

通过对 VR 和 AR 等技术手段的运用，实现了纺机行业无缝体验远程看厂、虚拟现实选型的纺机展示、选购、销售的新模式。极大的节省了人力物力费用，提高业务往来效率。

cotton spinning machinery exhibition section, chemical fiber machinery exhibition section, non-woven machinery exhibition section, dyeing & finishing machinery exhibition section, weaving machinery exhibition section, and special exhibition section. As the uniqueness of different machinery, Each pavilion uses different technical expressions, such as 3D perspective, VR, Flash animation and other technologies, reappearing the operation details of textile machinery and equipment, fully demonstrating the unique design, construction and workflow and process flow of each textile machinery.

As application of technical means such as VR and AR technology, the textile machinery industry has realized a seamless experience of remote display, virtual reality selection of textile machinery display, purchase and sales. The textile machinery exhibition system saved manpower and material costs, and it also improved business transaction efficiency.

产品特点

- (1) 缩短产品的开发、制造周期和上市时间。
- (2) 降低产品的开发、制造成本，保持竞争优势。
- (3) 提高产品质量，建立品牌效应。
- (4) 提高客户服务质量，增加客户满意程度。
- (5) 提高企业的创新能力，确立和保持在同行业的领先地位。

Product features

- (1) Shorten product development, manufacturing cycle and time to market.
- (2) Reduce product development and manufacturing costs and maintain competitive advantage.
- (3) Improve product quality and obtain brand effect.
- (4) Improve customer service quality and increase customer satisfaction.
- (5) Improve innovation ability, establish and maintain a leading position in the textile industry.

2 纺织工业品全产业链电商平台

2 Whole Industry Chain E-commerce Platform of Textile Industry Products



图 2— 纺织工业品电商平台

产品介绍

纺织工业品全产业链电商平台作为一种新型商业形式，其发展和应用在纺织行业引发了一场最广泛、最深刻的革命性变革。随着网络经济的高速发展，我国企业的传统市场优势在国外先进营销运作模式及本土化策略下已渐趋消失。因此，纺友大力发展纺织工业品全流程共享平台这种新型营销模式，建立基于企业信息化和电子商务技术的全新管理模式和营销体系，包含阳光采购、VR 选型、共享仓储、智能工厂、企业设备数字化建模等内容，将成为国内纺织机械行业提升自身市场竞争力、抵御进口纺织机械产品强力冲击的有力手段。纺织工业品全流程共享平台旨在建立制造商、经销商、配件商、用户、第三方等纺织机械行业上下游企业资源共享的第三方闭环平台。在售前 VR 选型、售中阳光采购、共享仓储和售后的远程监控、智能诊断的整体闭环中，以制造商为纽带，形成了制造商、经销商、配件供应商、维修服务商、用户以及有关金融单位等构成的行业产业链，组成和推动工程机械行业电子商务发展，带动机械行业 B2B 的整体发展。

Introduction of product

As a new type of commercial form, the textile industry's entire industry chain e-commerce platform has led to the most extensive and profound revolutionary changes in the textile industry. With the rapid development of the network economy, the traditional market advantages of Chinese enterprises have gradually disappeared under the advanced foreign marketing operation mode and localization strategy. Therefore, TEXMATE vigorously develops a new marketing model for the whole process sharing platform of textile industrial products, and establishes a new management model and marketing system based on enterprise informatization and e-commerce technology, including sunshine procurement, VR selection, warehouse sharing, smart factories, digital modeling of enterprise equipment will become a powerful means for the domestic textile machinery industry to enhance its own market competitiveness and resist the strong impact of imported textile machinery products. The whole process sharing platform of textile industry products aims to establish a third-party closed-loop platform for resource sharing between upstream and downstream enterprises in textile machinery industry, such as manufacturers, distributors, spare parts suppliers, users and third parties. In the overall closed loop of pre-sale VR selection, sunshine procurement, warehouse sharing and after-sales remote monitoring, and intelligent diagnosis, manufacturers, distributors, parts suppliers, maintenance service providers, and users are formed by manufacturers. As well as the industrial chain of financial institutions, which constitutes and promotes the development of e-commerce in the construction machinery industry, and drives the overall development of B2B in the machinery industry.

产品特点

(1) 纺织工业品全产业链电商平台打破公司壁垒，将销售、采购、物流等业务流程同供应链上下游的商务伙伴整合起来，建立全新的企业业务模式和商务社交。

(2) 企业借助纺织工业品全产业链电商平台高推广度、高曝光率和高影响力及其技术优势，有效降低企业运营成本和风险，集中精力和资源于核心业务——生产。

(3) 纺机企业的电商凭借公开透明的价格体系，便捷的物流配送等，使企业有效对接市场需求，提高产品销量。

(4) 收集利用大数据对客户需求进行分析，有利于纺机企业进行生产改造和加强技术升级。

(5) 新市场以及海外市场的开拓成为新的增长点，改变以往关系营销、地域营销的传统局面，将产品直面市场、直面用户，为企业与产品注入更多的竞争性和活力。

(6) 由于人工费用增长较快，利润率下降；企业对于效率和成本的优化成为迫切需求，电商平台去除中间环节，能够实现购销双方利益最大化，降低企业采购成本；

(7) 激活企业存量，在企业通过纺机商城由纯销售型企业向服务提供型企业转变的过渡期，企业大批传统销售人员将进入新的盈利渠道，由销售型人才向技术支持等O2O 线下服务型人才转变，释放企业压力，增加转型活力。

主要业绩

公司的全产业链电商平台建设 2016 年实现销售收入 1900 余万元，其中经纬纺机备件网上交易商城交易额突破 1600 余万，2017 年实现整体销售收入 2742.69 万元。拥有纺织行业供应商注册会员数 3500 家，采购商会员数 15000 家，2015 年促使交易金额达到 15 亿元，累计持续为包括欧美及东南亚在内的 3000 家知名企业提供服务。

Product features

(1) The whole industry chain e-commerce platform of textile industrial products breaks down the company's barriers, integrates sales, procurement, logistics and other business processes with business partners in the upstream and downstream of the supply chain to establish a new corporate business model and business social.

(2) With the high promotion degree, high exposure rate, high influence and technical advantages of the textile industry's whole industry chain e-commerce platform, the company effectively reduces the operating costs and risks of the enterprise, and concentrates and resources on production.

(3) The e-commerce of textile machinery enterprises can effectively meet the market demand and increase product sales by virtue of an open and transparent price system and convenient logistics and distribution.

(4) Collecting and utilizing big data to analyze customer needs is beneficial to textile machinery enterprises to carry out production transformation and strengthen technology upgrades.

(5) The development of new markets and overseas markets has become a new growth point, changing the traditional situation of relationship marketing and regional marketing, bringing products to the market and facing users, injecting more competitiveness and vitality into enterprises and products.

(6) Due to the rapid increase of labor costs and the decrease of profit rate, the optimization of efficiency and cost has become an urgent demand for textile enterprises. The e-commerce platform removes intermediate links and can maximize the benefits of both buyers and sellers and reduce the procurement cost of enterprises.

(7) Activating the enterprise stock, in the transition period from the pure sales enterprise to the service-oriented enterprise through the textile machinery mall, a large number of traditional sales personnel will enter the new profit channel, from sales talents to technical support and other O2O lines. The transformation of service-oriented talents will release corporate pressure and increase the vitality of transformation.

Main achievements

In 2016, TEXMATE's full industry chain e-commerce platform achieved sales revenue of more than 19 million yuan. The transaction volume of Jingwei Textile Machinery Spare Parts Mall online trading exceeded 16 million. In 2017, the overall sales revenue was 27.426 million yuan. The number of registered members of the textile industry supplier is over 3,500, and the number of buyers is over 15,000. In 2015, the promoted transaction amount reached 1.5 billion yuan, and the company continued to provide services to 3,000 well-known textile enterprises including Europe, America and Southeast Asia.

3 中纺机人工智能大数据平台 3 CTMC Artificial Intelligence Big data Platform



图 3— 人工智能大数据平台

产品介绍

中纺机人工智能大数据平台旨在让中纺机向客服提供便捷的智能机器人售前、售后服务、加强对客户的粘性、对自身和客户设备的远程管理能力，并将数据实时收集到 SaaS 云平台，并将数据应用到诸如营销、销售支持、售后体验优化，以及商业智能等应用场景中。当一名一线人员遇见机械故障，第一时间向智能机器人客服求助，机器人通过大数据库给他准确的答案，并指示他带上 VR 眼镜，机械的“病痛”界面立刻浮现眼前，一步一步的跟随机器人的指示进行维修。与此同时，远方的专家也能同步观看到 VR 眼镜所呈现的内容，如果机器人无法解决问题，专家也能远程与该一线人员同步解决问题。随着问题解决次数增多，智能机器人客服通过大数据不断自我学习、更新变化，不断的完善自我，直至趋近完美。

机器人小纬成为全纺织工业的粘合剂，随时随地解答行业相关问题，提高产业效率的同时加强行业粘性。随着企业将越来越多的战略举措和资源投入到中纺机人工智能大数据平台上，最终将驱动中纺机通过大数据针对行业具体问题来设计出灵活及高性价比的解决方案。

Introduction of product

China Textile Machinery big data platform is designed to make artificial intelligence to provide convenient intelligent robot pre-sales, after-sales service, strengthen customer stickiness and its own and customer equipment remote management ability, collect real-time data to SaaS cloud platform, apply data to marketing, sales support and after sales experience optimization, as well as business intelligence application scenario. When a workshop staff meet mechanical failure, he/she immediately asks for help from the intelligent robot customer service. The robot gives him/her accurate answers through the big database and instructs him/her to wear VR glasses. The machine interface "pain" immediately emerges, the staff follow the robot's instructions step by step for maintenance. At the same time, experts from afar can also view the content presented by VR glasses simultaneously. If the robot cannot solve the problem, experts can also solve the problem remotely with the staff. As the problem solving case increases, the customer service "Xiaowei" self learning constantly, updates and changes through big data, and constantly improves itself until approaching perfection.

The robot "Xiaowei" becomes the binder of the whole textile industry, answering industry related questions at any time and any place, improving industrial efficiency while strengthening industry stickiness. As enterprises put more and more strategic initiatives and resources into the large data platform artificial intelligence, China Textile Machinery Group will eventually be driven to design flexible and cost-effective solutions for specific industry problems through big data.

产品特点

- (1) 机器视觉模块：AR 眼镜远程诊断系统。
- (2) 语义交互模块：智能机器人客服小纬。
- (3) SaaS 云平台系统：提供客户导向性的服务。

Product features

- (1) Mobile machine vision module: AR glasses remote diagnosis system.
- (2) Semantic interaction module: Intelligent robot customer service Xiaowei.
- (3) The SaaS online platform system: providing customer-oriented service.

主要业绩

(1) 2019 年预计实现 1000 家纺织工业终端使用用户，通过在线提问累计收集有效大数据 300 万条。

(2) 智能机器人客服小纬将应用于中纺机各终端互联网平台，售前和售后效率增速 20%，提高中纺机与用户的粘性，提升中纺机的市场份额 7%—12%，最终实现中纺机销售额的增量。

(3) 智能机器人客服小纬与 AR 远程诊断系统同时投入应用于纺织厂远程诊断与运维系统，帮助纺织厂预诊，大大缩减机器故障发生率，提高纺织厂的生产效率。

(4) 机器人客服系统应用于纺机商城在线咨询及售后服务，大力减少商城人工客服投入，增强沟通效率。

(5) 测算依据：中纺机集团现有大客户资源：3000 家，与核心的 1000 家纺织客户联系使用本系统。

Main achievements

(1) In 2019, the company is expected to realize 1,000 textile industry end-users and collect 3 million effective big data through online questions.

(2) The intelligent robot customer service manager "Xiaowei" has applied to the Internet platform of each terminal of the Chinese textile machine. The pre-sale and after-sale efficiency increases by 20%, which improves the stickiness of the China Textile Machinery and the user, and increases the market share by 7% to 12%, finally achieving sales increase.

(3) At the same time, the remote diagnosis system "Xiaowei" and AR is applied to the remote diagnosis and operation system of textile factory, which helps the textile factory to make pre-diagnosis, greatly reduces the incidence of machine failures and improves the production efficiency.

(4) The robot customer service system is applied to online consultation and after-sale service of textile machine mall, which greatly reduces the investment of manual customer service and enhances communication efficiency.

(5) Calculated basis : China Textile Machinery has 3000 customers, and we can contact with the core 1000 customers to use the system.

4 基于数字化纺织企业新营销解决方案 —— 新链

4 New Marketing Solution for Digital Textile Enterprises -- New Chain



图 4— 云展厅 720° 全景

产品介绍

新链平台集成了 H5、720° 全景、VR 虚拟现实技术和 CMS 等主流工具，创新开发出移动营销工具云展厅和云微站，云展厅通过 720° 全景的方式展出企业想要展示的一切，然后通过云微展在移动端传播，用户在新链平台可以自主轻松完成云展厅和云微展的搭建，平台也提供了模板的选购和摄影师入驻服务，让纺织企业可以很方便地通过新媒体传播企业品牌、产品信息和展示企业实力。新链所有做的就是为用户打造一个不用出站就能享受完全的移动营销服务，开启全民移动营销服务时代。

Introduction of product

New Chain platform integrates the H5, 720 ° panoramic, VR mainstream tools such as virtual reality technology and CMS, innovation and development of the mobile marketing tools exhibition hall and cloud micro station clouds, cloud exhibition hall through 720 ° panoramic display enterprise want to show everything, and then through the cloud micro exhibition in mobile communication, users in the new chain platform can easily achieve construction of cloud micro exhibition hall and cloud platform also provides the template purchase and photographers in service, make the textile enterprises can be easily spread through new media brand, product information, and show the enterprise strength. All the new chain does is to create a complete mobile marketing service for users without going out and open the era of mobile marketing service for all.

产品特点

- (1) CMS: 流量变现更高效的营销工具:
- (2) 新链 +H5 场景微展示解决方案。
- (3) 新链 + 全景 VR 解决方案。

Product features

- (1) CMS: A more efficient marketing tool for traffic realization.
- (2) New Chain +H5 Scenario Micro-demonstration Solution.
- (3) New Chain + Panoramic VR Solution.

主要业绩

- (1) 新链为纺织业终端用户提供自媒体和社交名片服务。
- (2) 新链为纺织业线下商家提供线上线下融合服务。
- (3) 新链为纺织企业用户打造展前、展中、展后，永不落幕的云展会。

Main achievements

- (1) The New Chain provides self-media and social business card services for end users in the textile industry.
- (2) New Chain provides online and offline integration services for offline merchants in the textile industry.
- (3) New Chain creates pre-show & post-show exhibition and a never ending cloud exhibition for textile enterprises.

立信染整机械（深圳）有限公司

FONG'S NATIONAL ENGINEERING CO., LTD.

公司名称：立信染整机械（深圳）有限公司
Company Name: FONG'S NATIONAL ENGINEERING CO., LTD.

产品领域：主要业务为纺织行业设计、制造、销售和提供先进的纺织染整设备。

Product field: FONG'S NATIONAL ENGINEERING CO., LTD. has principally focused on the business of designing, developing, manufacturing and selling of textile dyeing and finishing machinery.

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1 溢流高温染色设备

1 High temperature dyeing machine



图 1— DYECOWIN 溢流高温染色设备

产品介绍

DYECOWIN 为恒天立信精心研发的新一代溢流高温染色设备。该新机型突破传统设计，以提升处染化纤织物的生产效能为方向，配合先进的科研技术，大大降低染色浴比；当中更有多项专利设计，为化纤织物染色带来新的标准。

Introduction of product

DYECOWIN is the revolutionary high temperature dyeing machine setting new standards for the industry. It is integrated with the cutting-edge patented technologies to cut down the liquor ratio and to enhance the productivity of the dyeing processes.

产品特点

DYECOWIN 高温染色机适用于多种化纤织物、多种针织纬编织物、以及梭织织物。该设备具备以下显著特点：

- (1) 大幅降低生产成本
- (2) 染色效果更优越
- (3) 提高生产效率
- (4) 实行智能化系统管理

Product features

DYECOWIN high temperature dyeing machine is suitable for a variety of chemical fiber fabrics, a variety of knitted weft knitted fabrics, and woven fabrics. The equipment has the following remarkable features:

- (1) Reduce Production Cost
- (2) Optimize the Dyeing Quality
- (3) Enhance Productivity and Efficiency
- (4) Enhance Productivity and Efficiency

2 高温染色机 TECWIN 2 FONG'S TECWIN



图 2— 高温染色机 TECWIN

产品介绍

恒天立信新研发的高温染色机 TECWIN，其设计理念是优化 TEC 系列高温染色机的各项性能，扩大其适用性。设计中已保留一些原有的优良配置，增加了新设计改进，更切合市场需求。

Introduction of product

FONG'S TECWIN is designed to adopt the ever-changing textile market nowadays. The reliability and versatility is further improved from the last generation.

产品特点

- (1) 可提供两个不同配置的前雾化喷嘴
- (2) 自动可调节喷嘴
- (3) 特别设计储布槽疏水筛
- (4) 高低水位溢流洗水

Product features

- (1) Combined Air & Front Spray Nozzle
- (2) Automatic Adjustable Nozzle
- (3) Liquid Dispersion Storage Chamber
- (4) Upper and Lower Overflow

3 ALLWIN Plus 高温筒子纱染色机 3 The ALLWIN Plus High Temperature Package Dyeing Machine



图 3— ALLWIN Plus 高温筒子纱染色机

产品介绍

ALLWIN Plus 高温筒子纱染色机是一台单向外流和内外双流向两用纱线染色机，其浴比低至 1:4，配合精准的智能控制及浪涛染色技术，选用符合欧洲标准不锈钢 316Ti/.4571 为主要钢材，给您拥有耐用先进设备更使您的生产流程站在世界尖端。

产品特点

- (1) 集合内外双流向及单向外流染色技术
- (2) 浪涛染色技术
- (3) 适用于多种物料
- (4) 极低浴比
- (5) 缩短工艺时间
- (6) 节能高效
- (7) 节省生产成本
- (8) 弹性变载
- (9) 广泛应用
- (10) 减少占地面积

Introduction of product

The ALLWIN Plus High Temperature Package Dyeing Machine with extra single-flow controls from traditional Allwin dual-flow dyeing. The revolutionary wave dyeing technique and intelligent control reduce the liquor ratio ever low to 1:4. Primarily built with 316Ti/.4571 stainless steel of European standards, Allwin plus empowers your production to the leading edge of efficiency and eco-friendliness.

Product features

- (1) Dual-flow and Single Inside-out Flow
- (2) Wave Dyeing Technology
- (3) Suitable for Various Material Types
- (4) Ultra-Low Liquor Ratio 1:4
- (5) Reduced Processes Time
- (6) Energy Saving
- (7) Save Production Cost
- (8) Flexible Loading
- (9) Broad Application
- (10) Reduce Spatial Occupancy

4 特恩 AIRJETWIN 高温气流染色机

4 AIRJETWIN high temperature airflow dyeing machine



图 4- 特恩 AIRJETWIN 高温气流染色机

产品介绍

为针对各种织物表面质量及风格要求的提高，恒天立信为满足市场对印染加工设备多元化要求，推出最新一代的多功能染色设备特恩 AIRJETWIN 高温气流染色机。在原先的气流力学原理下，结合染色过程独有心得，研发新一代特恩 THEN 气流染色机。

Introduction of product

AIRJETWIN high temperature airflow dyeing machine, the latest generation of dyeing equipment, is now being offered to fulfill the various requirements of dyeing process nowadays. Through finite element analysis (FEA), the airflow and water flow situation is well-analyzed for design optimization. In addition, by combining different THEN'S and FONG'S product advantages, the entire performance is further enhanced through a holistic design integration.

产品特点

- (1) 单风机多管道
- (2) 强大的喷嘴组合
- (3) 缸内 XY 摆布功能
- (4) 高效出布滚筒

Product features

- (1) Single-Blower for Multi-Tube Design
- (2) Integrating Nozzle System
- (3) XY Internal Plaiter
- (4) Overhead Cleaning System

主要业绩

(1) 2010年10月,“ALLWIN Plus 高温筒子纱染色机”被列入第四批《中国印染行业节能减排先进技 推荐目录》。

(2) 2017年5月19日,“Dyecowin 高温染色机”通过《中国纺织工业联合会科技成果鉴定会》。

(3) 2018年10月,“Tecwin 高温染色机”技术被列入《中国棉纺织行业节能减排技术暨创新应用目录》(第六批)。

Main achievements

(1) In October 2010, “ALLWIN Plus High Temperature Package Dyeing Machine” was included in the fourth batch of “Recommended Catalogue of Advanced Technology for Energy Saving and Emission Reduction in China's Printing and Dyeing Industry”.

(2) On May 19, 2017, Fong's DYECOWIN high temperature dyeing machine has passed appraisal of the Scientific and Technical Achievement by the China National Textile and Apparel Council (CNTAC).

(3) In October 2018, TECWIN High Temperature Dyeing Machine was listed in the energy-saving and emission reduction technology and innovative application catalogue (sixth batch) issued by China Cotton Textile Industry Association. Its advanced technology, energy saving and consumption reduction effects, and overall technology have reached the international leading level and won the recognition of the industry.

高乐纺织机械有限公司

Goller (HK) Limited

公司名称：高乐纺织机械有限公司

Company Name: Goller (HK) Limited

产品领域：纺织机械前处理

连续式平幅湿整理机械

Product Field: Textile pretreatment machinery

Continuous Open-width Wet Finishing Machinery

联系人及联系方式

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1 高乐 (Goller) SINTENSA CYCLONE TANDEM 高效水洗机

1 GOLLER high efficiency washing compartment SINTENSA CYCLONE TANDEM



图 1— 高乐 (Goller) SINTENSA CYCLONE TANDEM 高效水洗机

产品介绍

高乐新型水洗箱依据独特的设计理念，可进一步优化及降低织物在运行中的张力，其原理主要通过以下两点来实现。

优化的织物运行路径（路线）通过优化后的织物穿布路线，以及增加织物在主动辊筒和驱动转鼓包覆力设计。其目的是保持织物运行的速度与主动辊筒及驱动转鼓的速度一致，稳定织物在箱体内的运行条件，提升同步的准确性达到降低运行张力的要求。

安装于驱动转鼓（表面筛孔）内，特别专利设计的驱动转子。原理是在设备运行时转子在液下可以以不同转速运转，因转子高速拨水而产生低压作用，使运行中的织物产生抽吸效果进而有效的避免打滑现象，可以获得更低的张力效果。

主要适用于织物连续平幅水洗、退浆、除油、漂白 / 染色 / 印花后水洗。

Introduction of product

The newly-designed GOLLER washing compartment - SINTENSA CYCLONE TANDEM can reduce fabric's running tension by means of the following two points.

By optimizing fabric's running route. The optimized fabric's running route and the increased cladding intensity of the driven rollers and driven drums can keep the speed of the running fabric in accord with the speed of driven rollers and driven drums, stabilizing the processing conditions for fabric in the washing compartment and enhancing the accuracy of synchronization so as to facilitate the minimization of the fabric's running tension.

By the specially-designed rotor being installed on the driven drum (perforated). The rationale behind is that when the range is running, the rotor can rotate at different speeds under liquor and the high-speed water stirring of rotor can result in low pressure and thus achieving the suction effect of the running fabric. As a result of this, the problem of fabric-slipping can be avoided and the lower running tension can be resulted.

The new generation of GOLLER high efficiency washing compartment - SINTENSA CYCLONE TANDEM is an innovation to the typical washing compartment in large size and in large volume, which can indeed guarantee energy-saving, emission reduction and production. Costs-saving and make the open-width washing process for knitted fabric more smooth and efficient.

2 高乐 (Goller) EFFECTA Modul Anti-Curl 高性能水洗机

2 GOLLER high performance washing compartment EFFECTA Modul Anti-Curl



图 2— 高乐 (Goller) EFFECTA Modul Anti-Curl 高性能水洗机

产品介绍

EFFECTA Modul Anti-Curl 是高乐跟据市场需求设计而成的一款新型水洗箱，此设计有助增加水洗箱在应用上的灵活性，并为客户带来崭新的水洗体验。

减少卷边和皱痕出现，EFFECTA Modul Anti-Curl 是特别为处理梭织高弹性纬纱的裤子和牛仔面料而设计的水洗箱。透过巧妙地把两排导布辊放置于水洗箱顶层导布辊与底层导布辊的中间来大大的缩短面料自由游走的空间，从而减少卷边和皱痕的出现。另外，由两排额外的导布辊对面料提供额外的轧点水洗，也有助于提升水洗效能。

提高 EFFECTA 水洗箱与其他单元的兼容性，EFFECTA Modul Anti-Curl 是专门为提高 EFFECTA 水洗箱与其他单元的兼容性而设计的水洗箱。透过采用与 SINTENSA CYCLONE TANDEM 水洗箱一样的设计理念，把组合式的辊车中间箱与 EFFECTA 水洗箱并合，而成为 EFFECTA Modul Anti-Curl 水洗箱。此外，这款组合式设计能更有效地提高 EFFECTA 与各款单元的兼容性，如与 Sintensa 系列中最新型号的 SINTENSA CYCLONE TANDEM 水洗箱、Oxidator 化学药剂施加、膨化、收缩及水洗箱、Universa 堆置及水洗箱等单元的并合。在提高应用兼容性的大跃进下，EFFECTA Modul Anti-Curl 水洗箱除了丰富了高乐的产品线和令高乐的产品线更完整外，也令高乐更能胜任于任何一种连续平幅水洗的应用上。主要适用于织物连续平幅水洗、退浆、煮练、漂白 / 除油 / 染色 / 印花后水洗。

主要业绩

截至 2018 月 10 月 31 日
销售数量：418 台

Introduction of product

GOLLER EFFECTA MODUL ANTI-CURL is a newly-designed washing compartment which maximizes the flexibility in applications and brings the washing experiences to a brand new level.

By minimizing the occurrence of curling edge and crease marks, EFFECTA MODUL ANTI-CURL is designed particularly for Woven bottom weight and denim with high content of elastic weft processing. The ingenious way of putting the 2 rows of middle supporting rollers between the row of top rollers and the row of bottom rollers of EFFECTA MODUL ANTI-CURL which leaves the free fabric path in between in 360mm only and thus minimizing the occurrence of curling edge and crease marks. A higher washing efficiency can also be achieved since the extra 2 rows of middle supporting rollers provide more nips for fabrics during washing process.

By enhancing the compatibility of EFFECTA with different units, EFFECTA MODUL ANTI-CURL is designed specifically for enhancing the compatibility of EFFECTA with different units. It applies the same design principle as the one of SINTENSA CYCLONE TANDEM by incorporating the modular-design intermediated trough with squeezer into the washing compartment - EFFECTA MODUL ANTI-CURL in this case. This modular design has further enhanced the compatibility of EFFECTA with the latest version of Sintensa washing compartment-SINTENSA CYCLONE TANDEM, Oxidator chemical application, swelling, shrinkage and washing compartment and Universa dwelling and washing compartment, etc. With the advancement of applications compatibility, EFFECTA MODUL ANTI-CURL can not only complete Goller's product portfolio but also enable Goller to be excelled in every continuous open-width washing occasion.

Main achievements

Until October 31, 2018
Quality: 418 sets

立信门富士纺织机械（中山）有限公司

Company Name: Monforts Fong's Textile Machinery (Zhongshan) Co., Ltd.

公司名称：立信门富士纺织机械（中山）有限公司

Company Name: Company Name: Monforts Fong's Textile Machinery (Zhongshan) Co., Ltd.

产品领域：纺织机械后整理

具后整理技术的纺织机械，包括拉幅定型机，连续染色机，烘乾机，预缩机等。

Product Field: After-finish textile machinery

Textile Machinery with After-finish technology, including Stenter Frame Range, Continuous dyeing Range, Relaxation dryer, Shrinking Range, etc.

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1 MONFONGS 828 TwinAir 拉幅定型机

1 Stenter Frames Range Monfongs 828



图 1— MONFONGS 828 TwinAir 拉幅定型机

产品介绍

828 拉幅定型机是为满足不同布料，特别是弹性及敏感布种的后整理要求而设计，结合了高效、低耗、均衡的烘箱温度及低布料张力的优点，828 适合用于不同物料的梭织及针织物，进行脱水、整理、烘干、焙烘及定型。机器的运作速度是针织 5—100 米 / 分钟和梭织 7.5—150 米 / 分钟。

Introduction of product

Stenter Frames Range Monfongs 828 TwinAir is designed to match the requirements of all kinds of fabric finishing, especially elastic and sensitive materials. It is highly efficient, consumes little energy, maintains an even chamber temperature and exerts hardly any tension to the fabric. This machine is very versatile. It can handle all types of natural and man-made fibres in woven, knitted and warp knitted fabric form. Its capacity ranges from 5-100 m/min for knitted goods and 7.5-150 m/min for woven fabrics. It can be used for dehydration, finishing, drying, curing and heat-setting of woven and knitted fabrics.

2 Montex 6500 拉幅定型机 2 Stenter Frames Range Montex 6500



图 2—Montex 6500 拉幅定型机

产品介绍

数十年来，Montex 定型机于梭织及针织物后整理领域上，达到最佳的效果，已成为全球顶级技术的标志。新的配置使突出的 Montex 6500 更合乎经济操作，更广泛适合各种工艺，及提高环保均衡。并且更加添特殊的方案应付涂料染色及高产值针织物整理工艺。

Introduction of product

Stenter Frames Range Montex 6500, for decades, the Montex stenter frame has been a global synonym of top-rate technology for best results in the finishing treatment of woven and knitted fabrics. New features make the outstanding Montex 6500 now even more economical in operation, more universal in use and improve its ecobalance even further. Additionally, there are special solutions for pigment dyeing processes and the even more profitable finishing of knitted fabrics.

3 HiPer Shrink Astra 松式平网烘干机

3 HiPer Shrink Astra is a Shrinkage & Relaxation Dryer



图 3— HiPer Shrink Astra 松式平网烘干机

产品介绍

HiPer Shrink Astra 松式平网烘干机：适用于开幅以及圆筒式针织物。该款烘干机采用独特机械作用精心设计，专注于高烘干容量，具备低残余缩水率，柔软手感和低操作成本等诸多优势。其显著设计特色也包括热能回收系统（EnRec 1 & 2），可以有效减少能耗。

Introduction of product

HiPer Shrink Astra is a Shrinkage & Relaxation Dryer (the latest released model) for open width and tubular fabrics. Its unique design focuses the highest drying capacity, a low residual shrinkage and a soft hand feel by mechanical action and low operation cost. The uncompromising design also features an incorporated energy recovery system (EnRec 1&2) that reduces energy consumption by half when it is compared with standard dryers.

主要业绩

机型：1—3
截至 2018 月 10 月 31 日
销售数量：3189 台

Main achievements

Type: 1—3
Until October 31, 2018
Quality: 3189 sets

中国纺织科学技术有限公司、宏大研究院有限公司

China Textile Science and Technology Co., Ltd. ; Hongda Research Institute Co., Ltd.

公司名称：中国纺织科学技术有限公司、宏大研究院有限公司

Company Name: China Textile Science and Technology Co., Ltd. ; Hongda Research Institute Co., Ltd.

产品领域：纺熔复合非织造布生产线成套装备

中纺科技宏大研究院研制的纺熔复合非织造布生产线成套设备，按机型分为“宏大Ⅳ型”纺熔复合非织造生产线与“宏大Ⅴ型”纺熔复合非织造生产线。“宏大Ⅳ型”设备特点：产品质量好，工艺可控性强；“宏大Ⅴ型”设备特点：除保留宏大Ⅳ型机优点外，生产速度高、产量大、生产更加稳定，通过互联网技术实现远程监控及故障远程诊断处理。成布速度从“宏大Ⅳ型”400米/分钟提高到“宏大Ⅴ型”1000米/分钟，产能大幅提高，宏大产品技术国内领先，国际先进。

The Field of Product: the complete set of equipment of spun-bonded and melt blown composite nonwoven production line.

Brief Introduction of Product: The complete set of equipment of spun-bonded and melt blown composite nonwoven production line developed and manufactured by China Textile Science and Technology Hongda Research Institute divided into “Hongda IV type” and “Hongda V type” spun-bonded and melt blown composite nonwoven production line according to machine type. The equipment character of “Hongda IV type”: good quality of product, strong controllable of process; The equipment character of “Hongda V type”: except remain the advantages of Hongda IV type, with high production speed, big capacity and more stable of production. Realize remote monitor, control and remote diagnose, treatment of malfunction through internet technology. Cloth forming speed from 400 m/min of “Hongda IV type” to 1000 m/min of “Hongda V type”, the capacity increased rapidly. The technology of product from Hongda has been in the leading position in China and also advanced in international market.

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1 “宏大IV型” SMMS 联合机主机设备
1 “Hongda IV type” SMMS combined main machine equipment



2 “宏大IV型” SSMMS 联合机主机设备
2 “Hongda IV type” SSMMS combined main machine equipment

产品介绍

中纺科技宏大研究院研制的纺熔复合非织造布生产线成套设备，按机型分为“宏大IV型”纺熔复合非织造生产线与“宏大V型”纺熔复合非织造生产线。“宏大IV型”设备特点：产品质量好，工艺可控性强；“宏大V型”设备特点：除保留宏大IV型机优点外，生产速度快、产量大、生产更加稳定，通过互联网技术实现远程监控及故障远程诊断处理。成布速度从“宏大IV型”400米/分钟提高到“宏大V型”1000米/分钟，产能大幅提高，宏大产品技术国内领先，国际先进。

Introduction of product

Brief Introduction of Product: The complete set of equipment of spun-bonded and melt blown composite nonwoven production line developed and manufactured by China Textile Science and Technology Hongda Research Institute divided into “Hongda IV type” and “Hongda V type” spun-bonded and melt blown composite nonwoven production line according to machine type. The equipment character of “Hongda IV type”: good quality of product, strong controllable of process; The equipment character of “Hongda V type”: except remain the advantages of Hongda IV type, with high production speed, big capacity and more stable of production. Realize remote monitor, control and remote diagnose, treatment of malfunction through internet technology. Cloth forming speed from 400 m/min of “Hongda IV type” to 1000 m/min of “Hongda V type”, the capacity increased rapidly. The technology of product from Hongda has been in the leading position in China and also advanced in international market.

1 主要产品

1 Main Product

目前，公司在制及研发的产品主要产品分两大类型，“宏大 IV 型”纺熔复合非织造布生产线成套设备已经推向国内外市场；“宏大 V 型”设备处在研制阶段。公司产品见表 1

At the moment, there are two big type of main product manufactured, researched and developed by company. “Hongda IV type” spun-bonded and melt blown composite nonwoven production line has already been promoted to both domestic and international market; “Hongda V type” equipment is at the stage of research and manufacture. The product details please refer to form 1

表 1
Form 1

产品类型 Product Type	产品名称 Product Name	产品型号 Product Mode	技术指标 Technology Index
宏大 IV 型 Hongda IV type	SSS 联合机 SSS combined machine	HLW404-320-0000	成品幅宽：3.2 米 Product width: 3.2m 生产速度：400~600 米 / 分钟 Production speed:400~600 m/min
	SMS 联合机 SMS combined machine	HLW404-320-0000	成品幅宽：3.2 米 Product width: 3.2m 生产速度：400~600 米 / 分钟 Production speed:400~600 m/min
	SMMS 联合机 SMMS combined machine	HLW404-320-0000	成品幅宽：3.2 米 Product width: 3.2m 生产速度：400~600 米 / 分钟 Production speed:400~600 m/min
宏大 V 型 Hongda V type	SSS 联合机 SSS combined machine	HLW434-320-0000	成品幅宽：3.2 米 Product width: 3.2m 生产速度：800~1200 米 / 分钟 Production speed:800~1200 m/min
	SSMS 联合机 SSMS combined machine	HLW434-320-0000	成品幅宽：3.2 米 Product width: 3.2m 生产速度：800~1200 米 / 分钟 Production speed:800~1200 m/min
	SMMS 联合机 SMMS combined machine	HLW434-320-0000	成品幅宽：3.2 米 Product width: 3.2m 生产速度：800~1200 米 / 分钟 Production speed:800~1200 m/min
	SSMMS 联合机 SSMMS combined machine	HLW434-320-0000	成品幅宽：3.2 米 Product width: 3.2m 生产速度：800~1200 米 / 分钟 Production speed:800~1200 m/min

主要技术参数

The main technical parameters

纺熔复合设备技术参数见表 2

Spun-bonded and melt blown composite equipment technology parameters, please refer to form 2

表 2

Form 2

公司 Company	宏大研究院 Hongda Research Institute Co., Ltd.	
生产线设备 Production line equipment	宏大 IV 型、宏大 V 型 Hongda IV type, Hongda V type	
原料 raw material 纺粘 spun-bonded[MFI (230 / 2.16) =30~40g /10min] 熔喷 melt blown[MFI (230 / 2.16) =800~1500g /10min]	PP、PE、PLA 双组分 bi-component PP/PE	
纺粘单丝线密度 spun-bonded single filament density	1.0 ~ 2.0 denier	
熔喷单丝线密度 melt blown single filament density	2 ~ 5 μ m	
定量范围 quantitative range g/m ²	12-80	
纺丝速度 spinning speed m/min	1500 ~ 4000	
生产速度 production speed m/min	400 ~ 1000	
幅宽 width/mm	1600 ~ 5200	
3.2m 幅宽生产线生产能力 3.2m width production line capacity t/a	9000 ~ 10000 (按配比 by ratio 7:3:7)	
喷丝板型式 type of spinneret	整板式 Full plate	
喷丝板孔数 (孔 /m) number of spinneret holes	4500 ~ 6000	
牵伸型式 stretch type	狭缝抽吸式 Slot suction type	
设备可调性 Adjustable of equipment	熔喷平台可升降, 可侧向平移; The melt blown platform can be lifted and lateral translation. 纺粘平台、铺网机高度不可调 The height of spun-bonded platform and conveyor cannot be adjustable.	
产品质量指标 Quality index of product (SMS 布样 cloth sam- ple 13 g/m ²)	克重偏差 Gram deviation	2% ~ 6%
	断裂强力 Breaking strength(N/5cm)	25/13(MD/CD)
	断裂伸长率 Elongation at break%	103/71(MD/CD)
	静水压 Hydrostatic pressure mmH ₂ O	200
	透气性 Breathability l/m ² /s	610 ~ 1100

主要业绩

2013 年至今，宏大研究院在国内及国外（俄罗斯、白俄罗斯、波兰、土耳其、阿根廷、印尼、沙特阿拉伯、韩国等）市场销售“宏大 IV 型”生产线近 30 条。销售业绩见表 3

Main achievements

From 2013 till now, the sales both domestic and abroad market for “Hongda IV type” from Hongda Research Institute Co., Ltd. has already been near 30 production lines to the countries such as Russia, Belarus, Poland, Turkey, Argentine, Indonesia, Saudi Arabic and Korea etc. The sales achievements please refer to form 3.

表 3
Form 3

机型 TYPE	客户 CUSTOMER	生产速度 PROCESS SPEED	产能 CAPACITY	年度 YEAR
3.2m SSXS	福建 Fujian	500m/min	1350kg / h	2017
3.2m SMMS	福建 Fujian	500m/min	1350kg / h	2017
1.75m SMS	浙江 Zhejiang	350m/min	370kg/h	2017
1.6m SS Bico	波兰 Poland	200m/min	400kg / h	2017
3.2m SSS	白俄罗斯 Belarus	350m/min	1200kg/h	2017
3.2m SS	印度尼西亚 Indonesia	450m/min	1250kg/h	2016
3.2m SSMMMS	广东 Guangdong	600m/min	1800kg/h	2016
3.2m SSMMMS	江苏 Jiangsu	600m/min	1800kg/h	2016
3.2m SXMS	南非 South Africa	450m/min	950kg/h	2016
1.6m SXMS	俄罗斯 Russia	350m/min	370kg/h	2016
1.75m SMS	广东 Guangdong	350m/min	370kg/h	2016
2.4m SMS	广东 Guangdong	350m/min	750kg/h	2015
3.2m SSS	福建 Fujian	450m/min	1250kg/h	2015
3.2m SMMS	福建 Fujian	450m/min	950kg/h	2015
3.2m SSS	江苏 Jiangsu	450m/min	1250kg/h	2015
3.2m SMMS	福建 Fujian	420m/min	950kg/h	2014
1.75m SMS	福建 Fujian	350m/min	500kg/h	2014
1.75m SXS	福建 Fujian	350m/min	420kg/h	2014
2.4m SS	土耳其 Turkey	350m/min	600kg/h	2014
1.6m SMMS	土耳其 Turkey	350m/min	420kg/h	2013
1.6m S	印度尼西亚 Indonesia	220m/min	200kg/h	2013
3.2m MB (SMXS)	山东 Shandong	300m/min	120kg/h	2013
1.75m MB (SXS)	晋江 Jinjiang	300m/min	70kg/h	2013
1.6m MB	四川 Sichuan	100m/min	65kg/h	2013
3.2m SSMMMS	黑龙江 Heilongjiang	350m/min	1450kg/h	2013
3.2m SSS	俄罗斯 Russia	350m/min	1200kg/h	2013

常德经纬摇架科技有限公司

CHANGDE JINGWEI PENDULUM ARM TECHNOLOGY CO.,LTD.

公司名称：常德经纬摇架科技有限公司

Company Name: CHANGDE JINGWEI PENDULUM ARM TECHNOLOGY CO.,LTD.

常德经纬摇架科技有限公司前身为常德纺织机械有限公司摇架分公司，自 2017 年 12 月从常德纺织机械有限公司分离出来成为经纬股份全资子公司。

公司自 1966 年生产摇架、上销以来，历经 50 多年的艰苦创业与精心打造，已发展成为中国最大的纺纱摇架及上销生产、研发基地，生产的“巨鹰”牌摇架共 18 大系列 90 多个品种，涵盖圈簧加压、板簧加压、气加压的普通环锭纺与紧密纺，适用于棉、化纤、毛、麻、绢等各类纤维的粗、细纱牵伸。上销 11 大系列，50 多个品种，与摇架形成配套。是全球品种最全、产量最大的摇架、上销制造商，具备环锭纺牵伸加压全方位解决方案，在全球同类产品中市场占有率名列前茅。

公司一直致力于摇架及上销产品的研发，始终坚持“全、专、精”的路线，“全”代表产品能提供全方位的牵伸加压解决方案；“专”代表产品设计、制造、生产上专业，具有关键的核心技术；“精”代表对产品质量的苛求，关注细节，精益求精，以品质铸就品牌。在产品研发上逐步摆脱测绘、借鉴等新产品研发的老路，制定灵活的技术人员激励机制，充分发挥技术人员的主观能动性，形成了以自主创新为主导，借鉴为辅的新产品研发格局，每年开发三个以上新产品，申请专利不少于两项。积极参与行业标准的制订与讨论，制订更加严格的公司内控标准，用标准引领企业发展。在新工艺研发、新设备采用上与时俱进，零件加工及装配上逐步摆脱高成本、低质量人为因素的干预，采用高速连续冲床、连续模具，全自动锁螺丝机，自动铰孔机，自动方块铆接机，自动表面擦油，弹簧测压、分选、立定一次自动成型等自动化设备，使产品质量与生产效率得到双提升。在质量管控上，严格按照 ISO9001 质量管理体系的标准加强产品质量控制，质量意识深入人心，产品质量稳中有进。

公司发展至今，已累计生产、销售各类摇架 6000 多万套，市场占有率达 70%，赢得了“常德摇架纺天下”的美誉。被先后认定为国家火炬计划重点高新技术企业、湖南省重

Changde Jingwei Pendulum arm technology co., LTD., formerly known as branch of Changde Textile Machinery co., LTD., It has been a wholly owned subsidiary of Jingwei and separated from changde textile machinery co., LTD. since December 2017.

We producing pendulum arms & top apron since 1966, We become to the largest manufacture of spinning pendulum arms & top apron on production、research and development base in China after more than 50 years of hard work and elaborate creation. We are self-owned brand “Juying” brand with a total of 18 series and more than 90 varieties, including the ring spring pressure、plate spring pressure、gas pressure of normal ring spinning and compact spinning, widely used for cotton、chemical fiber、wool、linen、silk and other kinds of roving、spinning yarn drafting.

11 series of top apron matching with pendulum arms contained more than 50 varieties. We are the all varieties and largest manufacture in the world. Equip with the solution for drafting with ring spinning. We are the top enterprise in the global market in similar products.

We are specialized in research and development of pendulum arms & top apron based on the line of “Intelligible、professional and Quality”. “Intelligible” means equip with the solution for drafting with ring spinning. “professional” means design, manufacture, production with key technologies. “Quality” means demanding on quality of product. Details establish quality, quality makes bran. According to the development of new product, we try to change the old style and get rid of mapping and reference. Develop flexible mechanisms, give full play to them and guiding self-dependent. Reference is the second point for development of new product, we develop new product more than 3 product and application 2 product for patent at least every year. Actively take part in the formulation and discussion of industry standards, revise the control standards more strictly, standards makes development of enterprise. Keep pace with the times for development of new product and selection for new equipment. Avoid high cost and low quality during the processing of spare parts and assembly. It adopts high-speed continuous punching machine, continuous mould, automatic screw locking machine, automatic reaming machine, automatic square riveting machine, automatic surface oil polishing, spring pressure measuring, sorting, setting up automatic forming and other automatic equipment, which enable the double improvement both for quality and production efficiency. In terms of quality control, control the quality strictly by accordance with the standards of ISO9001 management system. Put quality awareness deeply in people's mind, quality is progressing steadily.

We producing and sold nearly 60,000,000 sets of Pendulum arms in the past few years, 70% share in the market and won the reputation of “changde spinning the world”. Recognized as a main high-tech enterprise of the national torch program、main high-tech enterprises in hunan province、provincial technology center of hunan province、

点高新技术企业、湖南省省级技术中心、中国唯一的“纺纱摇架及上销产品研发中心”，曾荣获“湖南省百强企业”、“全国机械行业文明单位”、“中国纺机之星”、“湖南省环境诚信企业”等荣誉称号。

the only “research and development center of spinning frame and top apron” in China. We won “The top 100 enterprises in hunan province”、“National civilized unit of machinery industry”、“Star of Chinese spinning machine”、“environmental integrity enterprise in hunan” and etc.

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1 摇架类产品

1 Weighting Arms



YJ200 系列摇架
Pendulum Arm YJ200 Series



YJ210 系列摇架
Pendulum Arm YJ210 Series



QYJ30A 系列摇架
Pendulum Arm QYJ30A Series



YJ2 系列摇架
Pendulum Arm YJ2 Series



YJ40 系列摇架
Pendulum Arm YJ40 Series



YJ60 系列摇架
Pendulum Arm YJ60 Series

1.1 YJ200 系列摇架

1.1 Pendulum Arm YJ200 Series

产品介绍

YJ200 系列摇架是公司自主研发的新一代细纱弹簧加压摇架，固定在“V”型槽圆支杆轴上，目前有 YJ200-145、145D、145T、145TE、132V 等型号；适用于三、四罗拉双皮圈牵伸形式的细纱机，有平牵伸与“V”型牵伸型式，并同时适用普通环锭纺和紧密纺，适纺纤维均为长度 65mm 以下的纯纺与混纺，其中直线牵伸若采用单区牵伸形式时，可纺纤维长度达 125mm。

Introduction of product

pendulum arm YJ200 series is a new generation of spring weighting arm developed by the company, it's widely used for spinning frames with 3-roller double apron draft system, the fibres suitable for the cotton yarns & blended yarns under the length of 65mm. The fibres can reach to length of 125mm when straining-line draft using single zone draft system.

主要技术参数

The main technical parameters

	加压力 (N) Loads	上 / 下罗拉直径 ϕ (mm) Top/Bottom roller	上罗拉握持尺寸 (mm) The size match to the top roller	掀起定位角 Unload position angle	上销型号 Top apron
前区 1 front 1	110;150;190;230 60;100;140;180 60;120;180;230	$\phi 29/\phi 25(\phi 27)$	$\phi 9.5 \times 16$	45°、60°	SX2 系列
中区 2 Middle 2	100;125;150;175	$\phi 25/\phi 25$	$\phi 9.5 \times 16$		
后区 3 Rear 3	100;125;150;175	$\phi 29/\phi 25(\phi 27)$	$\phi 9.5 \times 16$		

产品特点

1. 无需调整，平行度精确稳定；
2. 简单便捷，不论安装与使用；
3. 精确平衡，压力均匀又一致；
4. 完全互换，不管国内或国外；
5. 压力细分，用途灵活而广泛；
6. 刚度进一步提升。

Product features

1. Stable & precise parallelism without any adjustment ;
2. Easy to install & use ;
3. Precise & balance, pressure be uniform ;
4. Exchange freely no matter in China or overseas ;
5. Subdivided pressure, wide & flexible application ;
6. Enhanced rigidity .

主要业绩

年销售在 40 万套以上。

Main achievements

It sells over 400000 units a year.

1.2 YJ210 系列摇架

1.2 Pendulum Arm YJ210 Series

产品介绍

YJ210 系列摇架是公司自主研发的新一代细纱弹簧加压摇架，固定在六方形管支杆轴上，目前有 YJ210-145、145D、145T、145TE、132V 等型号；适用于三、四罗拉双皮圈牵伸形式的细纱机，有平牵伸与“V”型牵伸型式，并同时适用普通环锭纺和紧密纺，适纺纤维均为长度 65mm 以下的纯纺与混纺，其中直线牵伸若采用单区牵伸形式时，可纺纤维长度达 125mm。

Introduction of product

pendulum arm YJ210 series is a new generation of spring weighting arm developed by the company, it's widely used for spinning frames with 3-roller double apron draft system, the fibres suitable for the cotton yarns & blended yarns under the length of 65mm. The fibres can reach to length of 125mm when straight-line draft using single zone draft system.

主要技术参数

The main technical parameters

	加压力 (N) Loads	上 / 下罗拉直径 ϕ (mm) Top/Bottom roller	上罗拉握持尺寸 (mm) The size match to the top roller	掀起定位角 Unload position angle	上销型号 Top apron
前区 1 front 1	110;150;190;230 60;100;140;180 60;120;180;230	$\phi 29/\phi 25(\phi 27)$	$\phi 9.5 \times 16$	45°、60°	SX2 系列
中区 2 Middle 2	100;125;150;175	$\phi 25/\phi 25$	$\phi 9.5 \times 16$		
后区 3 Rear 3	100;125;150;175	$\phi 29/\phi 25(\phi 27)$	$\phi 9.5 \times 16$		

产品特点

1. 无需调整，平行度精确稳定；
2. 简单便捷，不论安装与使用；
3. 精确平衡，压力均匀又一致；
4. 完全互换，不管国内或国外；
5. 压力细分，用途灵活而广泛；
6. 刚度进一步提升。

Product features

1. Stable & precise parallelism without any adjustment ;
2. Easy to install & use ;
3. Precise & balance, pressure be uniform ;
4. Exchange freely no matter in China or overseas ;
5. Subdivided pressure, wide & flexible application ;
6. Enhanced rigidity .

主要业绩

年销售在 5 万套以上。

Main achievements

It sells over 50000 units a year .

1.3 QYJ30A 系列摇架

1.3 Pendulum Arm QYJ30A Series

产品介绍

QYJ30A 系列摇架是公司自主开发、具有自主知识产权的新型细纱气加压摇架，固定在六方管形支杆轴上，目前有 QYJ30A-125V、125VE、125VH、125VK、145、145E、145H、145K 等型号；适用于三、四罗拉双皮圈牵伸形式的细纱机，有平牵伸与“V”型牵伸型式，并同时适用普通环锭纺和紧密纺，适纺纤维均为长度 60mm 以下的棉、人造纤维的纯纺与混纺。

Introduction of product

pendulum arm QYJ30A series is a new generation of pneumatic weihing arm developed by the company, it's widely used for spinning frames with 3-roller double apron draft system, the fibres suitable for the cotton yarns & blended yarns under the length of 60mm.

主要技术参数

The main technical parameters

	加压力 (N) Loads	上 / 下罗拉直径 ϕ (mm) Top/Bottom roller	上罗拉握持尺寸 (mm) The size match to the top roller	掀起定位角 Unload position angle	工作压力 (MPa) Excutive Air Pressure	上销型号 Top apron
前区 1 front 1	100~220 120~230	$\phi 29/\phi 25(\phi 27)$	$\phi 9.5 \times 16$	45°、60°	0.08 ~ 0.15	SX2 系列
中区 2 Middle 2	100~160	$\phi 25/\phi 25$	$\phi 9.5 \times 16$			
后区 3 Rear 3	100~220	$\phi 29/\phi 25(\phi 27)$	$\phi 11.5 \times 16$			

产品特点

1. 精确平衡，压力均匀又一致；
2. 无需调整，平行度精确稳定；
3. 简单便捷，不论安装与使用；
4. 锁紧可靠操作轻松；
5. 皮辊锭间压力差异小。

Product features

1. Precise & balance, pressure be uniform ;
2. Stable & precise parallelism without any adjustment ;
3. Easy to install & use ;
4. Reliable lock & easy operation;
5. Minimize the difference of the rollers pressure.

主要业绩

年销售在 5 万套以上。

Main achievements

It sells over 50000 units a year.

1.4 YJ2 系列摇架

1.4 Pendulum Arm YJ2 Series

产品介绍

YJ2 系列摇架是公司八十年代中期开发并一直不断进行改进和完善的棉细纱弹簧加压摇架，固定在“V”型槽圆支杆轴上，目前有 YJ2-142A、142E、142C 等 20 多个型号，市场占有率很高；适用于三、四罗拉双皮圈牵伸形式的细纱机，有平牵伸与“V”型牵伸型式，并同时适用普通环锭纺和紧密纺，适纺纤维均为长度 60mm 以下的纯纺与混纺，其中直线牵伸若采用单区牵伸形式时，可纺纤维长度达 120mm。

Introduction of product

pendulum arm YJ2 series is spring weighting arm developed by the company in the mid-1980s and has been continuously improved and perfected, it's widely used for spinning frames with 3-roller double apron draft system, the fibres suitable for the cotton yarns & blended yarns under the length of 60mm. The fibres can reach to length of 120mm when straining-line draft using single zone draft system.

主要技术参数

The main technical parameters

	加压值 (N) Loads	上 / 下罗拉直径 ϕ (mm) Top/Bottom roller	上罗拉握持尺寸 (mm) The size match to the top roller	掀起定位角 Unload position angle	上销型号 Top apron
前区 1 front 1	100;140;180 140;180;220 ...	$\phi 28/\phi 25(\phi 27)$	$\phi 9.5 \times 16$	75°	SX2 系列
中区 2 Middle 2	100;140	$\phi 25/\phi 25$	$\phi 9.5 \times 16$		
后区 3 Rear 3	120;160	$\phi 28/\phi 25(\phi 27)$	$\phi 9.5 \times 16$		

产品特点

1. 品种齐全，纺纱适应性强；
2. 各加压区压力偏差范围小；
3. 三个加压杆的设计均采用了自调中心结构，在运转中能使上罗拉自调平行于下罗拉，平行度好；
4. 锁紧机构采用四连杆机构，锁紧定位可靠，加、卸压轻便。

Product features

1. pendulum arm YJ2 Series are of all kinds, they can be exchanged very well;
2. Every loading zone is of small deviation of pressure;
3. Three loading levers are designed with self-centering mechanism, and during performance the axis of top roller can be adjusted parallel to the bottom rollers by themselves;
4. The locking device of four-bar linkage is reliable and light for loading and unloading.

主要业绩

年销售在 60 万套以上。

Main achievements

It sells over 600000 units a year.

1.5 YJ40 系列摇架

1.5 Pendulum Arm YJ40 Series

产品介绍

YJ40 系列摇架是公司自主研制的新一代粗纱弹簧加压摇架，固定在花键槽圆支杆轴上，目前有 YJ40-190、190A、190B、190×4、190A×4、223×5 等多个型号；适用于三、四、五罗拉双皮圈牵伸形式的粗纱机，适纺纤维均为长度 50mm 以下的棉、化纤的纯纺与混纺；是 YJ4 系列粗纱摇架的升级换代产品。

Introduction of product

pendulum arm YJ40 series is a new generation of spring weighting arm developed by the company, it's widely used for roving frames with 3-roller double apron draft system, the fibres suitable for the cotton yarns & blended yarns under the length of 50mm. it's the upgrade of the pendulum arm YJ4 series.

主要技术参数

The main technical parameters

	加压力 (N) Loads	上 / 下罗拉直径 ϕ (mm) Top/Bottom roller	上罗拉握持尺寸 (mm) The size match to the top roller	掀起定位角 Unload position angle	上销型号 Top apron
前区 1 front 1	200;250;300 100;150;200 ...	$\phi 31(\phi 30)/\phi 28$	$\phi 12.6 \times 27$	33°	QSX40 系列
中区 2 Middle 2	100;150;200 200;250;300	$\phi 25/\phi 25$ $\phi 31(\phi 30)/\phi 28$	$\phi 11 \times 27$ $\phi 12.6 \times 27$		
后区 3 Rear 3	150;200;250 100;150;200	$\phi 31/\phi 28$ $\phi 25/\phi 25$	$\phi 12.6 \times 27$ $\phi 11 \times 27$		
后区 4 Rear 4	150;200;250	$\phi 31(\phi 30)/\phi 28$	$\phi 12.6 \times 27$		
后区 5 Rear 5	150;200;250	$\phi 30/\phi 28$	$\phi 12.6 \times 27$		

产品特点

1. 加压稳定可靠；
2. 皮辊锭间压力差异小；
3. 良好的平行度；
4. 锁紧可靠操作轻松；
5. 具备良好的互换性；
6. 具备超强的防腐性；
7. 各区单独调压。

Product features

1. Reliable & stable pressurization;
2. Minimize the difference of the rollers pressure;
3. Good parallelism;
4. Reliable lock & easy operation;
5. Exchange well;
6. Super strong non-corrodibility;
7. Separate adjusting pressure.

主要业绩

年销售在 5 万套以上。

Main achievements

It sells over 50000 units a year.

1.6 YJ60 系列摇架

1.6 Pendulum Arm YJ60 Series

产品介绍

YJ60 系列摇架是公司自主研制的新一代毛细纱弹簧加压摇架，固定在花键槽圆支杆轴上，目前有 YJ60-190×2、223 等型号；适用于二、三罗拉双皮圈牵伸形式的毛纺细纱机及绢纺粗纱机，适纺纤维长度为 187mm 或 220mm 以下的毛、化纤的纯纺与混纺；是 YJ6 系列摇架的升级换代产品。

Introduction of product

pendulum arm YJ60 series is a new generation of spring weighting arm developed by the company, it's widely used for wool spinning frames and embroidery roving frames with 3-roller double apron draft system, the fibres suitable for the cotton yarns & blended yarns under the length of 187mm or 220mm. it's the upgrade of the pendulum arm YJ6 series.

主要技术参数

The main technical parameters

	加压值 (N) Loads	上 / 下罗拉直径 φ (mm) Top/Bottom roller	上罗拉握持尺寸 (mm) The size match to the top roller	掀起定位角 Unload position angle	上销型号 Top apron
前区 1 front 1	400;450;500 200;275;350	Φ78/Φ45.1 Φ50/Φ35	Φ12.6×27	33°	SX60 系列
中区 2 Middle 2	100;150;200 150;200;250	Φ33/Φ30 Φ78/Φ45.1	Φ11×27 Φ12.6×27		
后区 3 Rear 3	200;250;300	Φ50/Φ35	Φ12.6×27		

产品特点

1. 加压稳定可靠；
2. 皮辊锭间压力差异小；
3. 良好的平行度；
4. 锁紧可靠操作轻松；
5. 具备良好的互换性；
6. 具备超强的防腐性；
7. 各区单独调压。

Product features

1. Reliable & stable pressurization;
2. Minimize the difference of the rollers pressure;
3. Good parallelism;
4. Reliable lock & easy operation;
5. Exchange well;
6. Super strong non-corrodibility;
7. Separate adjusting pressure.

主要业绩

年销售在 1 万套以上。

Main achievements

It sells over 10000 units a year.

2 上销类产品

2 Top apron cradles



2.1 SX2 系列上销

2.1 SX2 series top apron cradle

产品介绍

SX2 系列上皮圈销用于三罗拉双皮圈牵伸形式的细纱机，有金属和碳纤两大类，目前共有 15 种型号；适用于 YJ2、YJ200、YJ210、QYJ30A 等系列摇架（气加压或弹簧加压摇架）；适纺纤维长度 45 毫米以下的棉、人造纤维的纯纺和混纺。

Introduction of product

SX2 series top apron cradle is widely used for spinning frames with 3-roller double apron draft system; equip with YJ2、YJ200、YJ210、QYJ30A series weighting arms; the fibres suitable for the cotton yarns & blended yarns under the length of 45mm.

主要技术参数

The main technical parameters

	上皮圈销型号 model	锭距 (Tw1) Spindle gauge	挡板宽度 (b) Width of board	回转半径 (R) Radius of turning	回转中心到钳口的距离 (E) Distance between turning center and jaw	上皮圈规格 (直径 × 宽度 × 厚度) Equipped top apron cradle (diameter×width×thickness)
碳纤类 Carbon fiber cradle	SX2-6839B	68.4	28.4	39.5	37.7	Φ39.5×27.8×(0.8~1.2)
	SX2-6839D	68.4	28.4	39.5	37.7	Φ39.5×27.8×(0.8~1.2)
	SX2-6839E	68.4	28.4	39.5	37.7	Φ39.5×27.8×(0.8~1.2)
	SX2-6833B ...	68.4	28.4	35	31.2~34	Φ37×27.8×(0.8~1.1)
金属类 Metal cradle	SX2-6833C	68.4	28.4	35	33.2	Φ37×27.8×(0.8~1.1)
	SX2-6833	68.4	28.4	35	33.2	Φ37×27.8×(0.8~1.1)
	SX2-7542 ...	75	32.4	42.5	41	Φ41.5×32×(0.8~1.1)

产品特点

1. 良好的平行度；
2. 加压稳定可靠；
3. 品种齐全，纺纱适应性强。

Product features

1. Good parallelism;
2. Reliable & stable pressurization;
3. SX2 series top apron cradle are of all kinds, they can be exchanged very well.

主要业绩

年销售在 60 万套以上。

Main achievements

It sells over 600000 units a year.

2.2 QSX40 上销

2.2 QSX40 series top apron cradle

产品介绍

QSX40 系列上皮圈销用于三罗拉或四罗拉双皮圈牵伸形式的棉粗纱机，适用于 YJ4、YJ40 等系列摇架，目前有 QSX40-9033B、10033B、11033B、11042B 等型号；适应于纤维长度 45 毫米以下的棉、人造纤维的纯纺和混纺。

Introduction of product

QSX40 series top apron cradle is widely used for roving frames with 3-roller double apron draft system; equip with YJ4、YJ40 series weighting arms; the fibres suitable for the cotton yarns & blended yarns under the length of 45mm.

主要技术参数

The main technical parameters

上皮圈销型号 model	锭距 (Tw1) Spindle gauge	挡板宽度 (b) Width of board	回转半径 (R) Radius of turning	回转中心到钳口的距离 (E) Distance between turning center and jaw	上皮圈规格 (直径 × 宽度 × 厚度) Equipped top apron cradle (diameter×width×thickness)
QSX40-9033B	90	40.4	34.5	32.5	Φ37×39.8×(0.8~1.2)
QSX40-10033B	100	40.4	34.5	32.5	Φ37×39.8×(0.8~1.2)
QSX40-11033B	110	40.4	34.5	32.5	Φ37×39.8×(0.8~1.2)
QSX40-11042B ...	110	40.4	45	43.5	Φ43.5×39.8×(0.8~1.2)

产品特点

1. 良好的平行度；
2. 加压稳定可靠；
3. 品种齐全，纺纱适应性强。

Product features

1. Good parallelism;
2. Reliable & stable pressurization;
3. SX2 series top apron cradle are of all kinds, they can be exchanged very well.

主要业绩

年销售在 60 万套以上。

Main achievements

It sells over 600000 units a year.

江西凯马百路佳客车有限公司

Jiangxi Kama Business Bus Co., Ltd.

公司名称：江西凯马百路佳客车有限公司

Company Name: Jiangxi Kama Business Bus Co., Ltd.

公司目前有 12 大产品系列 100 多个品种，涵盖 5.7—27 米的新能源、清洁能源、传统动力等各种动力客车，品种包含：高档城市客车、旅游客车、团体客车、长途客车、房车、校车及特种客车。迄今为止，百路佳已成功为全球 32 个国家和地区，提供了优质安全客运解决方案。

公司已通过海湾 GCC 认证、ISO9001:2000Z 质量体系认证、欧盟 ECE 认证、澳大利亚 ADR 认证、美国 DOT 认证，并且是中国第一家同时通过澳大利亚 ADR 和美国 DOT 认证的客车制造企业，百路佳是澳大利亚交通部授权的具有客车生产、设计、测试资质的客车企业之一。

Nowadays, the Company's products include almost 100 varieties in 12 major series, covering new energy, clean energy and conventional power all models of 5.7-meter to 27-meter high-end passenger vehicles for tourism, urban passenger vehicles, road passenger vehicles, Motorhomes and special vehicles. So far, BONLUCKBUS has successfully supplied high quality, safe passenger transport solution to 32 countries and areas around the world.

We are accredited by GCC, ISO9001:2000Z, as well as the certified licensee of ECE EU, ADR Australia and DOT USA. We are also the first China bus and coach manufacturer that was qualified by both ADR Australia and DOT USA, BONLUCK is authorized by Australian Road Vehicle Certification Department as one of the facilities of vehicle producing, design and testing.

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http://www.bonluckbus.com

1. 总裁系列 1. President Series



总裁系列
President Series

产品介绍

President 系列车型以满足最大乘客座椅数为设计标准。这一系列车型外观造型优雅大气，并配备有可调式座椅，充足的行李舱空间，舒适性尽显无遗。车长从 8.6m—14.5m 可选，乘客座椅数从 33 到 69 座，可选配后置或中置卫生间及休息区。

Introduction of product

The President series are designed to handle a maximum number of passengers. These coaches offer outstanding comfort and body design including an elegant exterior, airplane style reclining seats and generous luggage space. 33-69 passengers are comfortably carried with the option of a rear or center mounted bathroom and service area, this model is available for 8.6m to 14.5m.

2. 城市之星系列 2. City Star Series



城市之星系列
City Star Series



产品介绍

城市之星低地板公交车融入便捷检修的设计，各项性能按最高标准打造，配置标准齐全，无论是穿梭于城市高峰，还是行驶于偏远郊区，都是同类车型中的优选车型。此系列车型座位数 35—79 座可选。

Introduction of product

This model is the ultra-low floor urban transporter designed to perform under the highest demands, whether in peak city traffic or out to the suburbs. Built with serviceability and convenience in mind, rates practicality at the top of its list with many standard features. This value-packed model comes in variants from 35-79 passengers.

3. 雷霆系列 3.Thunder Series



雷霆系列
Thunder Series

产品介绍

HT 系列车型，融合有最前卫的设计、最高端的技术及最优良的制造。集成众望所归的优势于一体，HT 系列车型蓄势待发，并为乘客带来舒适、别样的体验。该系列车型安装美国康明斯发动机，艾利逊变速箱，德国 ZF 空气悬挂，充分加强了车型的耐久性，稳定性和可靠性。此系列车型座位数 40—58 座可选。

Introduction of product

The Thunder Series are the embodiment of our highest level for design, technology, and manufacture. With a long list of its most desired features, this one is ready to take on the highway with comfort and style. It features US brand Cummins Engine and Allison Transmission, and German brand ZF air-suspension which augment to its durability, stability, and reliability. This value-packed model comes in variants from 40-58 passengers.

4. 城堡系列 4. Castle Series



城堡系列
Castle Series

产品介绍

该系列车型在总车高最低的前提下，满足了双层内高设计的最高极值，提供大角度半躺豪华加宽座椅，总载客数超同类产品 45% 以上，行李舱空间超同级别大巴 10% 以上，驾驶区采用乘客司乘人员分离设计，即实现“免打扰”模式，又兼顾了驾驶安全性和乘坐舒适感。

Introduction of product

The newly innovated double deck coach has perfectly reached the maximized internal height while the minimized external overall height is kept, the seating capacity has surpassed over 45% than congeners with widened semi-reclined luxury seats, it also features enlarged luggage compartment of 10% greater; the driving cab and seating area are divided with NO DISTURBING that provides driving safety and riding comfort.

北京恒天鑫能新能源汽车技术有限公司

Beijing Hi-Tech Xinneng New Energy Automobile Co., Ltd.

公司名称：北京恒天鑫能新能源汽车技术有限公司

Company Name: Beijing Hi-Tech Xinneng New Energy Automobile Co., Ltd.

北京恒天鑫能新能源汽车技术有限公司（简称“恒天新能源公司”）是中国恒天集团旗下专业从事新能源汽车及各类专用汽车研发、生产、销售的高新技术企业。公司管理和研发总部设在北京，贸易总部设在香港，在欧洲拥有多处研发、制造基地和广泛的合作伙伴。

母公司中国恒天集团是国务院国资委把汽车核定为主业的四家大型央企之一，是国内汽车产品种类、资质最为齐全的汽车企业集团之一。中国恒天集团高度重视新能源汽车业务的发展，依托恒天新能源公司制定新能源业务三步走发展战略。2017年新能源专用车销量位列行业第二位，在新能源汽车核心部件和关键技术方面已经具备领先优势。

北京恒天鑫能新能源汽车技术有限公司下辖荷兰GINAF汽车公司、斯洛文尼亚TAM-EUROPE公司、天津恒天新能源汽车研究院有限公司等，与中国科学技术大学、上海交通大学等国内多所知名院校保持密切的合作关系。

恒天新能源公司十分注重科技创新和技术进步，坚持员工与公司共同成长、与公司分享贡献的价值观，致力于成为中国新能源汽车行业中的优秀企业，并在世界新能源汽车发展史上占有一席之地。

Beijing Hi-Tech Xinneng New Energy Automobile Co., Ltd, owned by China Hi-Tech Group Corporation, is a high-tech enterprise specializing in the R&D, production and sales of new energy automobiles and various kinds of specialized automobiles. The company is under the jurisdiction of Netherlands GINAF Automobile Company and Slovenia TAM-DURABUS Company. The management headquarter and the R&D headquarter are in Beijing, and the business headquarter is in Hong Kong. The company also has many manufacturing and R&D bases and a wide range of partners in Europe.

Beijing Hi-Tech Xinneng New Energy Automobile Co., Ltd is specializing in the strategic development plan, the market layout, the full vehicle development, the core technology research, the core technology integration, the development and application of core components of new energy automobiles.

Netherlands GINAF Automobile Company emphasizes on the development and manufacture of traditional and new energy trucks and specialized vehicles.

Slovenia TAM-DURABUS Company bases on the development and manufacture of traditional and new energy passenger cars and airport buses.

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1. 整车控制器

1.Vehicle Control Unit (VCU)



VCU 正面图



VCU 内部图



VCU 背面图

2. 远程监控终端

2.Remote Monitoring Terminal (RMT)



RMT 正面图

3. 电池控制单元

3.Battery Control Unit (BCU)



BCU 正面图



BCU 侧面图

4. 电池电子部件

4.Battery Electronics (BE)



BE 正面图



BE 背面图

5. 电池包

5.Battery Pack (Pack)



电池包侧面图



电池包正面图



电池包 PACK 内部结构图

6. 电动汽车远程服务与管理系统企业平台

6.Enterprise Platform of Remote Service and Management System for Electric Vehicles



电动汽车远程服务与管理系统企业平台正面图



电动汽车远程服务与管理系统企业平台侧面图

7. 电机控制器

7. Motor Control Unit (MCU)



MCU 正面图

主要业绩

1、整车控制器（VCU）业绩

15 年度配套 280 台 2.45 吨纯电动厢式物流车；

17 年度配套 12000 台微面、4.5 吨等纯电动物流车；

18 年度（截止 10 月份）配套 3840 台微面、4.5 吨等纯电动物流车；

2、远程监控终端（RMT）业绩

17 年度配套 12000 台微面、4.5 吨等纯电动物流车；

18 年度（截止 10 月份）配套 3840 台微面、4.5 吨等纯电动物流车；

3、电池控制单元业绩

18 年度实现小批量，并于 10 月份备产 1000 套；

4、电池电子部件（BE）业绩

18 年度实现小批量，并于 10 月份备产 4000 套；

5、电池包 PACK

18 年度计划交付 4000 套，截止 10 月份已交付 950 套，配套 4.5 吨纯电动厢式物流车。

6、电机控制器 MCU

在研产品，初步完成样机试装，并处于路试试验中。

Main achievements

1. Vehicle Control Unit

280 sets of 2.45 tons of pure electric van logistics vehicle in 2015; 12000 sets of pure electric logistics vehicles, such as Mini Van and 4.5 tons vehicles, were equipped in 2017.

3840 sets of Mini Van, 4.5 tons and other pure electric logistics vehicles in 2018.

2. Remote Monitoring Terminal

12000 sets of pure electric logistics vehicles, such as Mini Van and 4.5 tons, were equipped in 2017.

3840 sets of Mini Van, 4.5 tons and other pure electric logistics vehicles in 2018.

3. Battery Control Unit

Small-scale of volume production will be achieved and 1000 sets will be produced in Oct,2018.

4. Battery Electronics

Small-scale of volume production will be achieved and 4S000 sets will be produced in Oct,2018.

5. Battery Pack

The 2018 year plan to deliver 4,000 sets, by October has delivered 950 sets, supporting 4.5 tons of pure electric van logistics vehicles.

6. Motor Control Unit MCU

The present products under research was initially installed and tested in road trial.

湖北新楚风汽车股份有限公司

Hubei Xin chufeng auto

公司名称：湖北新楚风汽车股份有限公司

Company Name: Hubei Xin chufeng auto

湖北新楚风汽车股份有限公司系中国恒天集团旗下核心汽车业务板块，成立于2010年6月，由中国恒天集团和随州市政府鼎力合作，旗下经纬纺织机械股份有限公司对原湖北省专用汽车制造厂（2007年3月成立）战略重组而来。公司坐落于炎帝神农故里、具有“编钟古乐之乡”之称的中国专用汽车之都—随州市两水经济开发区，注册资金10.5亿元，是随州市唯一一家具有自主商用整车生产资质的企业，也是四大国有汽车品牌之一。

公司现有员工500余人，占地618亩，总资产24亿元。拥有5万台整车及底盘、车架和2万台车身总成能力，1万台传统、新能源专用车与客车生产能力。

产品领域：

公司卡车产品分专用车定制底盘、新能源纯电动汽车底盘、专用车、矿用车四大类别、二百多个型号品种，专用车定制底盘及新能源纯电动汽车底盘是其中最具发展前景的产品。

随着随州专汽的强势崛起，我司迎来了新的发展机遇，专用车定制底盘及新能源纯电动汽车底盘现已被列为我司重点发展的产品。

Hubei xinchufeng automobile co., ltd. is the core automobile business segment of CHTC GROUP, which was established in June 2010. It was restructured from Jingwei Textile Machinery Company Limited, a subsidiary of CHTC GROUP, in cooperation with the government. The company is located in the hometown of China special purpose vehicle base -- suozhou shuanshui economic development zone, with a registered capital of 1.05 billion yuan. This is the only independent commercial vehicle production qualifications enterprise in Suizhou city, is also one of the four state-owned automobile brands.

The company has more than 500 employees, covering 9270 square meter and total assets of 2.4 billion yuan. It has 50,000 complete vehicles and chassis, frame and 20,000 body assembly capacity, and 10,000 production capacity of traditional and new energy special vehicles and passenger cars.

Product field:

The company's truck products are customized chassis, new energy pure electric vehicle chassis, new energy pure electric vehicle chassis, special vehicles, mineral vehicles four categories, more than 200 types of varieties, special vehicles customized chassis and new energy pure electric vehicle chassis are the most promising products.

With the strong rise of suizhou autos, our company has ushered in new development opportunities. Customized chassis for special vehicles and pure electric vehicle chassis for new energy have been listed as our company's key development products.

联系人及联系方式

Contact Person and Information

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1. 公司产品

1.Products

1.1 专用车底盘系列

1.1 Special vehicle chassis series



HQG1080GD5 (4x2) 载货汽车底盘
HQG1080GD5 (4x2) truck chassis

产品介绍

该底盘适合做：
洒水车 (4—5m³)
油罐车 (4.5—6m³)
清障车
车厢可卸式垃圾车
高空作业车

Introduction of product

The chassis fits :
watering cart
tanker
Tow truck
garbage truck
overhead working truck



HQG1110GD5 (4x2) 载货汽车底盘
HQG1110GD5 (4x2) truck chassis

产品介绍

该底盘适合做：
洒水车 (6—7.35m³)
油罐车 (7—8.5m³)
吸污车 (6.6m³)
抑尘车 (8.5m³)
车厢可卸式垃圾车

Introduction of product

The chassis fits :
watering cart
tanker
Vacuum truck



HQG1160GD5 \ 1163GD5 (4x2) 载货汽车底盘
HQG1160GD5 \ 1163GD5 (4x2) truck chassis

产品介绍

该底盘适合做：
洒水车 (8—11.5m³)
油罐车 (10—12m³)
吸污车 (9.18m³)
抑尘车 (9.45m³)
平板运输车 洗扫车
随车起重运输车
仓栅运输车 (6.7m 内箱长)
养蜂车 钻机车

Introduction of product

The chassis fits :
watering cart
tanker
Vacuum truck
Dust suppression car
Types of vehicles
Cleaning sweeper truck
Cleaning sweeper truck
Barn transporter
Beekeeping car
wagon drill car



HQG1180GD5 (4x2) 载货汽车底盘
HQG1180GD5 (4x2) truck chassis

产品介绍

该底盘适合做：
厢式运输车 (9.6m 内厢长)
翼开启厢式运输车 (9.6m 内厢长)

Introduction of product

The chassis fits :
Cargo truck



HQG1181GD5 (4x2) 载货汽车底盘
HQG1181GD5 (4x2) truck chassis

产品介绍

该底盘适合做：
载货汽车 (6.6m 内厢长)
仓栅式运输车 (6.6m 内厢长)

Introduction of product

The chassis fits :
Cargo truck
Barn transporter



HQG1251GD5 (6x2) 载货汽车底盘
HQG1251GD5 (6x2) truck chassis

产品介绍

该底盘适合做：
洒水车 (17.5m³)
油罐车 (18—21.5m³)
平板运输车
随车起重运输车
仓栅运输车 (9.6m 内箱长)
厢式运输车 (9.6m 内厢长)
翼开启厢式运输车 (9.6m 内厢长)

Introduction of product

The chassis fits :
watering cart
tanker
Types of vehicles
Cleaning sweeper truck
Barn transporter
Cargo truck



HQG1250GD5 (6x4) 载货汽车底盘
HQG1250GD5 (6x4) truck chassis

产品介绍

该底盘适合做：
洒水车 (16.5m³)
油罐车 (17—20m³)
平板运输车
随车起重运输车
仓栅运输车 (9.6m 内箱长)

Introduction of product

The chassis fits :
watering cart
tanker
Types of vehicles
Cleaning sweeper truck
Barn transporter



HQG1310GD5 (8x4) 载货汽车底盘
HQG1310GD5 (8x4) truck chassis

产品介绍

该底盘适合做：
洒水车 (17.5m³)
油罐车 (19—23m³)
平板运输车
随车起重运输车
仓栅运输车 (9.6m 内箱长)

Introduction of product

The chassis fits :
Watering cart
tanker
Types of vehicles
Cleaning sweeper truck
Barn transporter

1.2 搅拌车底盘系列

1.2 Agitator chassis series



HQG1162GD5 (4x2) 搅拌车底盘
HQG1162GD5 (4x2) Agitator chassis

产品介绍

该底盘适合做：
搅拌车 (2.7m³)

Introduction of product

The chassis fits :
mixer truck



HQG1252GD5 (6x4) 搅拌车底盘
HQG1252GD5 (6x4) Agitator chassis

产品介绍

该底盘适合做：
搅拌车 (4.8m³)

Introduction of product

The chassis fits :
mixer truck

1.3 牵引车系列 1.3 Tractor series



HQG4140GD5(4x2) 牵引车
HQG4140GD5(4x2) Tractor

产品介绍

目标市场：
港口，短途运输

Introduction of product

target market :
Port, short haul



HQG4162GD5(4x2) 牵引车
HQG4162GD5(4x2) Tractor

产品介绍

目标市场：
港口，短途运输

Introduction of product

target market :
Port, short haul



HQG4160GD5 (4x2) 牵引车
HQG1180GD5 (4x2) Tractor

产品介绍

目标市场：
长途运输

Introduction of product

Target market :
long-distance transportation



HQG4250GD5 (6x4) 牵引车
HQG4250GD5 (6x4) Tractor

产品介绍

目标市场：
长途运输

Introduction of product

Target market :
long-distance transportation



HQG4251GD5 (6x2) 牵引车
HQG4251GD5 (6x2) Tractor

产品介绍

目标市场：
长途运输

Introduction of product

Target market :
long-distance transportation

1.4 纯电动汽车系列

1.4 Pure electric vehicle series



2.4T 厢货物流车
2.4T cargo van



2.6T 厢货物流车
2.6T cargo van



3.5T 微卡
light truck



4.5T 厢货
cargo van



电动勾臂垃圾车
Electric hoist arm garbage truck



电动清障车
Electric recovery truck



电动洗扫车
Electric sweeper



电动冷链车
Electric refrigerator



电动压缩垃圾车
Electric compressed garbage truck



电动洒水车
Electric sprinkler



电动餐厨垃圾车
Electric Food Waste Collection Trucks



电动售货车
Electric sells Van



极驰合作销售车型电动海狮面包
Electric Haice van



中信国安合作销售车型微卡及转运车系列
CHINA CITIC COOPERTAION MINI VAN AND TRANSFER TROLLEY

主要业绩

2016 年完成投资 1.5 亿元，建成国内第一家自动化程度最高的新能源柔性生产线，达到年度双班 15000 台车辆生产能力。

2016 年 HQG5160TXSGD5 罐式洗扫车经省级专家组评审为“国际先进”。

2016 年公司获得省级、市级《守合同重信用单位》称号。

2017 年元月，5000 辆重型汽车底盘（6×4、8×4 车型）装配生产线的建设启动，4 月正式进入试生产。生产线具有制造周期短、投入资金省、使用效果好的特点。公司“智能化柔性传统动力、纯电动汽车底盘混装生产线”项目获得“湖北省智能制造试示范单位”荣誉称号。

2017 年，成功取得“中央装备军品承制单位资质”并受邀参加 12 月份陆装采购招标项目，标志着被纳入部队军品列装、采购与生产研发厂商范围。

2017 年 9 月，纯电动微面 5022 车型参加第二届全国新能源物流车挑战赛获得“最佳涉水奖”、“最受欢迎运营商”。

公司与武汉理工大学开展产学研校企合作成果——“罐式洗扫车”经鉴定达到国际先进水平，并于 2017 年度获得随州市科技进步一等奖、湖北省科技进步三等奖。

2017 年研发 4.5T 纯电动物流车，针对性开发了智能能量管理系统、智能空调管理系统、智能的远程车辆控制及程序升级，《4.5T 箱式运输车研发及物联网应用》项目获得恒天集团 2017 年科技进步三等奖。与湖北省专汽研究院共同成立新能源汽车联合研发中心。

2017 年 10 月公司获得“一种面包车车身吊具”、“一种底盘工艺小车”、“一种卡车车身吊具”三项发明专利。

2017 年 6 月，湖北新楚风汽车股份有限公司协同创新管理平台正式开始上线运行，实现人员沟通、流程协作、知识共享与整合的线上快速响应和可视化管理，极大提高整个团队的协作和执行力。

2017 年新能源汽车实现销售 11807 台，2017 年新能源物流车市场占有率为 10.5%，新能源产品销量稳居全国前三。

Main achievements

In 2016, we invested 150 million yuan to build the first new energy vehicle flexible production line with the highest degree of automation in China, reaching the annual production capacity of 15,000 vehicles in two shifts.

In 2016, HQG5160TXSGD5 tank model cleaning vehicle was evaluated as "international advanced" by the provincial expert group.

In 2016, the company was awarded the title of "abiding by contract and valuing credit" at provincial and municipal levels.

In January 2017, the construction of the assembly line of 5,000 heavy-duty vehicle chassis (models 6 x 4 and 8 x 4) was started, and the trial production was started in April. The production line has the characteristics of short manufacturing cycle, saving investment and High-Efficiency Utilization. The project of "intelligent flexible traditional power and pure electric vehicle chassis mixed production line" won the honorary title of "Hubei province intelligent manufacturing pilot demonstration unit".

In 2017, the company successfully obtained the qualification of the central military equipment supplier and was invited to participate in the procurement bidding project of the army equipment in December, means that the product was included in the range of military equipment, procurement and production research and development manufacturers.

In September 2017, the electric micro van model 5022 participated in the second national new energy logistics car challenge and won the "best made award" and "most popular operator".

The company and Wuhan university of technology carried out school-enterprise cooperation achievements - "tank washing and sweeping vehicle" has reached the international advanced level through appraisal, and won the first prize of Suizhou scientific and technological progress and the third prize of Hubei provincial scientific and technological progress in 2017.

In 2017, we developed 4.5t pure electric logistics vehicles, and specifically developed intelligent energy management system, intelligent air conditioning management system, intelligent remote vehicle control and program upgrade. The project "4.5t box transportation vehicle development and Internet of things application" won the third prize of Hentian group's 2017 scientific and technological progress. Set up the joint research and development center of new energy vehicle together with Hubei auto research institute.

In October 2017, the company obtained three patents for invention: "one kind of vehicle lifting device for minivan", "one kind of chassis technology vehicle" and "one kind of truck body lifting device".

In June 2017, the collaborative innovation management platform of hubei xinchufeng automobile co., ltd. was officially put into operation, realizing online rapid response and visual management of personnel communication, process collaboration, knowledge sharing and integration, which greatly improved the coordination and execution of the whole team.

In 2017, 11,807 new energy vehicles were sold. In 2017, the market share of new energy logistics vehicles was 10.5% in China and the sales of new energy products ranked among the top three in China.

山东华源莱动内燃机有限公司

Shandong Huayuan Laidong Engine Co., Ltd.

公司名称：山东华源莱动内燃机有限公司

Company Name: Shandong Huayuan Laidong Engine Co., Ltd.

产品领域：内燃机

公司为恒天凯马股份有限公司控股子公司，位于中国梨乡山东莱阳，是中国主要的中小功率发动机生产基地，国家大型一级企业，“山东老字号”企业。主要从事发动机及零部件的开发设计、生产、销售及相关进出口贸易。目前公司主导产品有单缸和多缸两大系列发动机和农业装备产品。其中：单缸系列柴油机有 1105、KM160 两大产品平台，11 种型号，150 余种变型产品，功率覆盖 13.2 至 25 kW，年生产能力 15 万台；多缸系列柴油机有 L、D、K 三大产品平台，34 种型号，300 余种变型产品，功率覆盖 14.7 至 88.3kW，年生产能力 20 万台。农业装备产品主要包括大蒜、大葱等收获机械。此外公司还对外承揽各种铸件、油泵、组合机床、工装模具等业务，逐步形成以发动机为主业，各种零部件、工程机组齐头并进的产业布局。公司在全国设立了 23 个市场部，近 500 家单机经销商，900 多个服务站，10 多个技术服务站，为用户提供全天候全方位的营销服务。

公司技术中心为省级企业技术中心，2016 年 11 月 21 日获得中国合格评定国家认可委员会 CNAS 认可资格。20 世纪 90 年代，公司通过 ISO9001 质量体系认证和国际权威的英国 UKAS 质量认证，2006 年通过 DNV 挪威船级社认证，2017 年完成 IATF16949；2016 换版认证与 VCA E-MarkII 欧排工厂条件认证。

Product Field: Internal-combustion engine

The company is a subsidiary of China Hi-Tech Kama Co., Ltd, which is located in the pear city---Laiyang, Shandong, China, is an important production base of small and medium power engines in China. It is a large national first-class enterprise and Shandong Time-honored brand enterprise. It is mainly engaged in the development and design, production and sales of engines, and their components and related import and export trade. The company's leading products are single-cylinder and multi-cylinder two series diesel engine and agriculture equipment products. The single-cylinder series have 1105 and KM160 two products platform, including 11 models, and more than 150 variant products, power range from 13.2kW to 25kW with annual production capacity 150 thousand sets; Multi-cylinder series have L、D、K three products platform, including 34 models, and more than 300 variant products, power from 14.7kW to 88.3kW with annual production capacity 200 thousand sets. The agriculture equipment products include green Chinese onion and garlic harvesters. In addition, the company also undertakes a variety of castings, oil pumps, combined machine tools, tooling and other business, gradually forming the engine as the main industry, various components engineering units go hand in hand with the industrial layout. The company established 23 marketing departments, nearly 500 sales nets, more than 900 service stations including more than 10 technical service stations, which ensure an efficient and full range of marketing system.

The Technology Center of company is Provincial Enterprise Technology Center, which obtained CNAS Accreditation by the National Accreditation Committee for conformity Assessment of China on Nov.21, 2016. In the 1990s, the company passed ISO 9001 quality system certification and international authoritative UKAS quality certification. The company passed DNV certification in 2006, and finished version change certification of IATF16949:2016, and VCA E-Mark II European emission factory condition certification.

联系人及联系方式

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1. 单缸系列发动机 1.Single cylinder series engine



1110E3 型柴油机：标定功率 / 转速 (kW / r/min) : 13.24/2200
Model 1110E3: rated power/speed(kW/r/min) :13.24/2200



1115E3 型柴油机：标定功率 / 转速 (kW / r/min) : 14.7/2200
Model 1115E3: rated power/speed(kW/r/min) :14.7/2200



KM130E3 型柴油机：标定功率 / 转速 (kW / r/min) : 16.2/2200
Model KM130E3: rated power/speed(kW/r/min) : 16.2/2200



KM138E3 型柴油机：标定功率 / 转速 (kW / r/min) : 17.6/2200
Model KM138E3: rated power/speed(kW/r/min): 17.6/2200



LD28E3 型柴油机：标定功率 / 转速 (kW / r/min) : 18.38/2200
Model LD28E3: rated power/speed(kW/r/min) : 18.38/2200



KM186E3 型柴油机：标定功率 / 转速 (kW / r/min) : 23.53/2200
Model KM186E3: rated power/speed(kW/r/min): 23.53/2200

2. 多缸系列发动机 2.Multi-cylinder series engine



3TE25 型柴油机：标定功率 / 转速 (kW / r/min) : 18.4/2350
Model 3TE25: rated power/speed(kW/r/min):18.4/2350



3TE30 型柴油机：标定功率 / 转速 (kW / r/min) : 22.1/2350
Model 3TE30: rated power/speed(kW/r/min):22.1/2350



4TE35 型柴油机：标定功率 / 转速 (kW / r/min) : 25.8/2350
Model 4TE35: rated power/speed(kW/r/min):25.8/2350



4TE45A 型柴油机：标定功率 / 转速 (kW / r/min) : 33.1/2400
Model 4TE45A: rated power/speed(kW/r/min):33.1/2400



4TE50 型柴油机：标定功率 / 转速 (kW / r/min) : 36.8/2400
Model 4TE50: rated power/speed(kW/r/min):36.8/2400



4TD60A 型柴油机：标定功率 / 转速 (kW / r/min) : 44.2/2500
Model 4TD60A: rated power/speed(kW/r/min):44.2/2500



4TD80 型柴油机: 标定功率 / 转速 (kW / r/min) : 58.8/2400
Model 4TD80: rated power/speed(kW/r/min):58.8/2400



4TG100 型柴油机: 标定功率 / 转速 (kW / r/min) : 73.5/2400
Model 4TG100: rated power/speed(kW/r/min):73.5/2400



K15 型柴油机: 标定功率 / 转速 (kW / r/min) : 52/3200
Model K15: rated power/speed(kW/r/min):52/3200



4K22V 型柴油机: 标定功率 / 转速 (kW / r/min) : 66/3200
Model 4K22V: rated power/speed(kW/r/min):66/3200



4L22GN 型发动机
采用汽油 + 压缩天然气 (CNG) 两种燃料。标定功率 / 转速 (kW / r/min) : 62/3200
4L22GN Engine
Use gasoline and compressed natural gas for two fuels. Rated power/speed(kW/r/min) : 62/3200

3. 农业装备产品

3.Agriculture Equipment Products



4DS-6 型大蒜联合收获机
Model 4DS-6 Garlic combine harvester



4DC-1 型大葱收获机
Model 4DC-1 Green Chinese onion harvester

主要业绩

公司主导产品有单缸和多缸两大系列柴油机和农业装备产品。单缸系列柴油机功率范围 13.2kW~25kW，主要配套中小型拖拉机、三轮汽车；多缸系列柴油机功率范围 12 kW~88kW，主要配套领域为轻微卡、农业机械、收获机械、大中型拖拉机、工程机械、发电机组、船机、山地车等。农业装备产品用于大蒜、大葱的收获。

Main achievements

The company's leading products are single-cylinder and multi-cylinder two series diesel engine and agriculture equipment products. Power range of single-cylinder series engine is 13.2kW~25kW, which is mainly supplied to medium and small tractors, and three-wheeled vehicles. Power range of multi-cylinder series engine is 12 kW~88kW, which is mainly supplied to light and micro trucks, agriculture machinery, harvesters, large and medium agricultural tractors, and engineering machinery, generator set, ship machine, and mountain car etc. The agriculture equipment product used in the harvesting of green Chinese onion and garlic.

山东凯马汽车制造有限公司

Shandong Kama Automobile Manufacturing Co.,Ltd.

公司名称：山东凯马汽车制造有限公司

Company Name:Shandong Kama Automobile Manufacturing Co.,Ltd.

产品领域：载货类、工程类、专用类、新能源类

公司隶属于恒天凯马股份有限公司，是一家集研发、生产、销售、服务于一体化的专业化汽车生产企业，山东省机械工业百强企业，山东省高新技术企业。主导产品为“凯马”牌载货汽车，涵盖微型、轻型、中重型、专用车及新能源汽车五大系列 1000 多个产品品种。

公司拥有先进的冲压、涂装、焊接、总装等自动化生产线，贯彻“实施精心策划、制造优质产品、提供完善服务、追求更新更好”的质量方针，建立健全了生产经营全过程的质量控制系统，先后通过了 ISO9001 和 TS16949 质量管理体系认证，并荣获“中央企业先进集体”、“山东省高新技术企业”、“山东省消费者满意单位”和“山东省十大自主创新品牌企业”等荣誉称号。

公司秉承“用户第一、服务至上”的经营理念，在全国建立了 500 多个营销网点和售后服务站，形成了运作高效的销售服务网络，产品畅销全国 34 个省市自治区，并出口至东南亚、中东、南美、非洲多个国家及地区。

凯马汽车将以“中国制造 2025”为指引，以载货汽车为主导，牢固树立“创新、协调、绿色、开放、共享”发展理念，坚持“协同、求是、奋进”的企业精神，走“快速响应、性价比更优、内涵与外延并重”的发展道路，努力成为具有核心竞争能力、细分行业领先的优秀企业。

Products series: cargo truck,construction truck,special truck,new energy truck.

Shandong Kama Automobile Manufacturing Co., Ltd. (referred to as Kama Motors Co., Ltd.) is a large-scale industrial enterprise in China and a high-tech enterprise in Shandong Province. As a subsidiary of the Hengtian Kama Co., Ltd., Kama Motors has developed into a grand commercial vehicle enterprise integrating R&D, produce, sales and service. The leading product is “Kama-brand” truck, which cover more than 1,000 varieties and six major categories of mini,light, medium and heavy-duty trucks, special-purpose vehicles and new energy automobiles.

The company have advanced level of stamping, welding, coating, general assembly and other automobile specialized production lines,Carry out meticulously planned manufacturing quality products to provide perfect service to pursue newer and better quality policy, establish and improve the whole process of production and operation quality control system,it passed the certification of quality control system ISO9001 and CCC,awarded “Advanced collective of central enterprise”, “high-tech enterprise in China’s Shandong Province”, “Shandong consumer satisfaction enterprise”, “Shandong ten independent innovation brand enterprises” and so on.

The company adhering to the “user first, service first” business philosophy,More than 500 marketing outlets and after-sales service stations have been established nationwide, forming an efficient sales service network,Products sell well in 34 provinces and autonomous regions,and exported to East-South Asia,Middle Asia,South America,Africa and others coutries.

Kama Motors will under the guidance of the “Made in China 2025” and with the focus on trucks, it will firmly uphold the development philosophy of “innovative, coordinative, green, openness and sharing”, adhere to the enterprise spirit of “cooperating, exploring, and enterprising”, dedicate to the competition strategy of being “professional, differentiated, and refined”, and follow the development path of “fast response, better cost performance, and emphasis on both the connotation and extension”. By 2020, Kama Motors’ production and sales of automobiles will be 100,000, and its sales revenue will reach 5 billion yuan. Kama Motors will strive to become an outstanding enterprise with core competitiveness and play a leading role in multiple industries.

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1. 凯捷 M8 KMC5046XXYA33D5 厢式运输车
1.KAIJIE M8 KMC5046XXYA33D5 VAN BOX TRUCK



2. 锐航 X3 KMC1043H31D5 载货汽车
2.RUIHANG X3 KMC1043H31D5 LIGHT DUTY TRUCK



3. 凯捷 M6 KMC3046GC34P5 自卸汽车
3.KAIJIE M6 KMC3046GC34P5 DUMP TRUCK



4. K22 KMC5035XXYBEVA296W1 纯电动厢式运输车
+ 凯捷 M3 KMC5042XXYBEVA33M3 纯电动厢式运输车
4.K22 KMC5035XXYBEVA296W1 ELECTRONIC VAN BOX TRUCK+KAIJIE M3 KMC5042XXYBEVA33M3 ELECTRONIC VAN BOX TRUCK



5. 凯捷 M6 KMC1102A42P5 载货汽车
5.KAIJIE M6 KMC1102A42P5 LIGHT DUTY TRUCK



6. 凯捷 M6 KMC5080GXFSL20 森林消防车
6.KAIJIE M6 KMC5080GXFSL20 FOREST FIRE TRUCK



7. 凯捷 M6 KMC5046TPBA33D5 平板运输车
7.KAIJIE M6 KMC5046TPBA33D5 FALTBED TRUCK



8. 凯捷 M6 KMC5046CCYA33D5 仓栅式运输车
8.KAIJIE M6 KMC5046CCYA33D5 STORAGE TRUCK



9. 凯捷 M6 KMC5102JSQA42P5 随车起重运输车 9.KAIJIE M6 KMC5102JSQA42P5 CRANE TRUCK



主要业绩

2001 年，通过国家汽车生产条件验收，取得了汽车生产目录，跨入汽车整车生产企业行业。

2004 年，凯马汽车轻卡进入全国同行业前七强，被誉为轻卡行业杀出来的一匹“黑马”。

2009 和 2010 年，凯马汽车产销量连续突破 10 万辆，成为载货汽车行业发展最快的企业之一。

2010 年，凯马汽车与东风汽车股份有限公司实现了战略合作；在此基础上，2011 年 8 月，又共同出资组建成立了“山东东风凯马车辆有限公司”。

2011 年，凯马汽车 10 万辆卡车及零部件生产基地建成投产。

2014 年，通过工信部准入审查，获得了新能源汽车生产资质。

2017 年，赣州分厂项目在江西赣州新能源汽车城奠基开工，总投资额 15 亿元，投产后公司可持续发展能力进一步增强，为实现全国战略布局创造了条件。

Main achievements

In the year 2001,kama truck passed the nation automobile production conditions,obtained the catalogue of automobile production,stepped into the automobile production enterprise.

In the year 2004,kama light duty truck entered the first seven in the nation ranking at the same industry, renowned as a "dark horse" in the light truck industry.

In the year 2009 and 2010,the quantity of produce and sale continuous breakthrough 100,000 units,became one of the most fast developing company in the light truck industry.

In the year 2010,kama truck achieved strategic cooperation with Dongfeng automobile company ;on this basis,in the august of 2011,Shandong Dongfeng Kama automobile company was established by both of them.

In the year 2011,kama truck the base of production 100,000 units truck and spare part completed and putted into production.

In the year 2014,through the access review of Ministry of Industry and Information of Technology ,obtained the certificate of production with new energy.

In the year 2017, the construction commencement ceremony of the project of Ganzhou branch factory started in the city of new energy in Ganzhou,Jinagxi province,the gross investment is 1.5 billion,the capacity for sustainable development is further enhanced,created the convenient conditions for implement the national strategic layout.

南昌凯马有限公司

Nanchang Kama Co., Ltd.

公司名称：南昌凯马有限公司
Company Name: Nanchang Kama Co., Ltd.

产品领域：矿山机械、停车设备

南昌凯马有限公司位于南昌国家昌北经济技术开发区，由恒天凯马股份有限公司对南昌市原南昌通用机械厂、江西采矿机械厂、江东机床厂、江西第四机床厂、江西第五机床厂五家国有企业重组而成。公司于 2003 年 3 月在南昌工商行政管理局登记注册。产品主要有大型露天矿山钻孔设备—牙轮钻机、井下矿山设备—铲运机、运矿卡车和其他井下辅助类产品如各类台车以及立体车库等。

公司在不断进行产品技术升级的同时，确定了开拓国际市场、树立知名品牌形象、打造园区核心竞争力、拉动区域经济发展的战略方针。

Nanchang Kama Co., Ltd., located in Nanchang National Changbei Economic and Technological Development Zone, is reorganized by Kama Co., Ltd. to the following five state-owned enterprises: Nanchang General Machinery Factory, Jiangxi Mining Machinery Factory, Jiangdong Machine Tool Factory, Jiangxi No. 4 Machine Tool Plant and Jiangxi No. 5 Machine Tool Plant. The company was registered with the Nanchang Administration of Industry and Commerce in March 2003. Its main products include drilling equipment for large-scale open pit - roller rigs, downhole mining equipment - scrapers, Mining trucks and other downhole auxiliary products such as various types of vehicles and three-dimensional garage, etc.

While continuously upgrading product technology, the company has established a strategic policy of opening up the international market, setting a well-known brand image, building the core competitiveness of the industrial zone, and stimulating regional economic development.

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1 矿山机械 1 Mining Machine

1.1 牙轮钻机系列 1.1 Rotary drill



KY200 牙轮钻



Ky250 牙轮钻



KY310 牙轮钻

1.2 地下铲运机系列

1.2 Underground Load-haul-dump (LHD)



WJD-1.5 地下电动铲运机



WJD-1 地下铲运机



WJD-2g 地下内燃铲运机



WJD-2 地下电动铲运机



WJD-3 地下电动铲运机

1.2 地下铲运机系列

1.2 Underground Load-haul-dump (LHD)



WJ-1.5 地下内燃铲运机



WJ-1 地下内燃铲运机



WJ-1 地下电动内燃铲运机（双铰接）



WJ-2g 地下内燃铲运机



WJ-2 地下内燃铲运机

1.3 地下运矿车系列 1.3 Underground ore car



UK-4 地下运矿车



UK-8 地下运矿车



UK-10 地下运矿车



UK-12 地下运矿车



UK-15 地下运矿车



UK-20 地下运矿车

1.4 地下辅助设备

1.4 Underground auxiliary equipment



FY-68 撬毛台车



FY-100 地下破碎机



UDZ-5 矿用无轨台车

2 停车设备

2 Parking Equipment



垂直循环立体车库

主要业绩

牙轮钻机为大型露天矿山钻孔设备，主要客户有江西铜业、本溪钢铁、包钢、华联锌姻、河北钢铁等，近三年市场占有率保持在 60% 以上。

我公司另一大类产品为井下矿山设备，主要有铲运机、运矿卡车等，服务于冶金、有色矿山、化工矿山等，客户包括中国五矿、大冶有色、华冶、中冶、河北钢铁、北京金诚信矿业建设有限公司矿山建设公司及国内各大小型矿山，近三年市场占有率约为 10%。

公司其他井下辅助类产品如各类台车等，因为才刚刚开发，只形成了少量销售，尚未形成规模。立体车库目前尚未形成销售。

Main achievements

The rotary drill is an equipment for drilling large open pit mine . Its main customers include Jiangxi Copper, Benxi Iron and Steel, Baoshan Iron and Steel, Hualian Zinc, Hebei Iron and Steel, etc. Its market share has remained above 60% in the past three years.

Another major product category, underground mine equipment,, mainly include scraper, mining truck, etc., serving the industry of metallurgy, non-ferrous mines, chemical mines, etc. Its customers include China Minmetals, Daye Nonferrous Metals, Huaye Group, MCC, Hebei Iron and Steel, Beijing Jinchengxin Mining Construction Co., Ltd. Mine Construction Company and various domestic large and small mines . This kind of equipment covers a market share of about 10% in the past three years.

The company's other underground auxiliary products, such as various types of trolleys, just entered into the market. Thus, its sales scale has not yet been formed. The three-dimensional garage has not yet been ready for sale.

无锡华源凯马发动机有限公司

WUXI WORLDBEST KAMA POWER CO.,LTD.

公司名称：无锡华源凯马发动机有限公司

Company Name: WUXI WORLDBEST KAMA POWER CO.,LTD.

产品领域：柴油发动机、柴油发电机组、农业机械、园林机械四大系列等产品。

公司是中国恒天集团的子公司恒天凯马股份有限公司控股和公司经营层持股的国家高新技术企业，地处风景秀美的太湖之滨——无锡。注册资本 3500 万元，占地面积 6 万余平方米，建筑面积 3 万平方米，员工 300 余人，其中工程技术人员占 20% 以上。

公司自成立以来一直致力于汽、柴油发动机系列产品的研发、制造、销售，在引进国际具有先进水平的小型风冷柴油机的基础上，自行研发了“凯马”“KAMA”牌系列风冷柴油机，中小型柴油发电机组、汽油发电机组、水泵机组和微型耕作机。目前已形成发动机、发电机组、农业机械、园林机械四大系列 60 多个品种，年产 50 万台各类主机的生产能力。

公司主力产品单缸风冷柴油机在国内农机配套领域占有主要市场，系列中小功率发电机组为国家通讯行业备用电源主要供应商。同时，公司一直致力于国际市场的拓展，目前公司外销部长期驻扎在上海，负责公司外贸出口业务，产品远销东南亚、中东、非洲、南美洲和欧洲部分国家和地区，在国际市场有一定的知名度与美誉度。

Products series: Diesel Engine, Diesel Generator Set, Agricultural Machinery and Garden Machinery.

Wuxi Worldbest Kama Power Co., Ltd. with the Company's managerial level shareholding, is a national high-tech enterprise owned by Kama Co., Ltd., a subsidiary of China Hi-Tech Group. Located besides 'Tai Lake' shore with pretty scenery, WUXI WORLDBEST KAMA POWER CO., LTD. started a registered capital of 35million RMB Yuan, with Enterprise area about 60,000sq.m and floor space about 30, 000sq. m. At present, the company has about 300 staff, including over 20% of senior engineers and technicians.

Since its inception, the company has been committed to the research and development, manufacturing, sales of gasoline and diesel engines series. On the basis of introducing the international advanced small air-cooled diesel engine, the company has developed a series of air-cooled diesel engines of "KAMA" brand, including medium and mini diesel generator sets, gasoline generator sets, water pump generator sets and micro-tiller. At present, the company has formed more than 60 varieties of these four series products: engines, generator sets, agricultural machinery, garden machinery and it achieves an annual output of 500,000 sets of various types of mainframe.

With the product performance increasingly mature, the product sales area is expanding. At present, the company's main product, single-cylinder air-cooled diesel engine, occupies the major share in the field of domestic agricultural machinery, of which small-and-medium-power generator sets are the main supply source as backup power for the national communications industry. While doing well in the domestic market, the company has also been working for the expansion of the international market. At present, the company's export department has long been in Shanghai for the company's foreign trade export business. Through their joint efforts, nowadays products are exported to Southeast Asia, the Middle East, Africa, South America and parts of Europe and regions. It is worth mentioning that the company has earned a certain popularity and reputation in the international market.

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1 发动机 1 Diesel Engine



KM186F 柴油发动机
KM186F Diesel Engine



KM178F 柴油发动机
KM178F Diesel Engine

2 发电机 2 Diesel Generator



KDE6500E 柴油发电机
KDE6500E Diesel Generator



KDE8500E 柴油发电机
KDE8500E Diesel Generator

3 农业机械 3 Agriculture Equipment



KDT610K 微型耕作机
KDT610K Micro Tilling Manager



KDT910K 微型耕作机
KDT910K Micro Tilling Manager



KDP20 水泵机组
KDP20 Water Pump Set



KDP30 水泵机组
KDP30 Water Pump Set



KM3CG-30 茶田翻耕管理机
KM3CG-30 Ploughing Manager for Tea field

主要业绩

无锡华源凯马发动机有限公司是中国恒天集团的子公司恒天凯马股份有限公司控股和公司经营层持股的国家高新技术企业，公司地处风景秀美的太湖之滨——无锡。注册资本 3500 万元，占地面积 6 万余平方米，建筑面积 3 万平方米，员工 300 余人，其中工程技术人员占 20% 以上。

公司自成立以来一直致力于汽、柴油发动机系列产品的研发、制造、销售，公司在引进国际具有先进水平的小型风冷柴油机的基础上，自行研发了“凯马”“KAMA”牌系列风冷柴油机，中小型柴油发电机组、汽油发电机组、水泵机组和微型耕作机，目前，公司已形成发动机、发电机组、农业机械、园林机械四大系列 60 多个品种，年产 50 万台各类主机的生产能力。

公司产品性能日臻成熟，产品销售区域不断扩大。目前公司主力产品单缸风冷柴油机在国内农机配套领域占有主要市场，系列中小功率发电机组为国家通讯行业备用电源主要供应商。在做好国内市场的同时，公司亦一直致力于国际市场的拓展，目前公司外销部长期驻扎在上海，负责公司外贸出口业务，产品远销东南亚、中东、非洲、南美洲和欧洲部分国家和地区，在国际市场有一定的知名度与美誉度。

Main achievements

Wuxi Worldbest Kama Power Co., Ltd. is a national high-tech enterprise owned by High-tech Kama Co., Ltd., a subsidiary of China Hi-Tech Group. with the Company's manageial level shareholding. Located besides 'Tai Lake' shore with pretty scenery, WUXI WORLDBEST KAMA POWER CO., LTD. started a registered capital of 35million RMB Yuan, with Enterprise area about 60,000sq.m and floor space about 30, 000sq.m. At present, the company has about 300 staff, including over 20% of senior engineers and technicians.

Since its inception, the company has been committed to the research and development, manufacturing, sales of gasoline and diesel engines series. On the basis of introducing the international advanced small air-cooled diesel engine, the company has developed a series of air-cooled diesel engines of "KAMA" brand, including medium and mini diesel generator sets, gasoline generator sets, water pump generator sets and micro-tiller. At present, the company has formed more than 60 varieties of these four series products: engines, generator sets, agricultural machinery, garden machinery and it achieves an annual output of 500,000 sets of various types of mainframe.

With the product performance increasingly mature, the product sales area is expanding. At present, the company's main product, single-cylinder air-cooled diesel engine, occupies the major share in the field of domestic agricultural machinery, of which small-and-medium-power generator sets are the main supply source as backup power for the national communications industry. While doing well in the domestic market, the company has also been working for the expansion of the international market. At present, the company's export department has long been in Shanghai for the company's foreign trade export business. Through their joint efforts, nowadays products are exported to Southeast Asia, the Middle East, Africa, South America and parts of Europe and regions. It is worth mentioning that we have obtained a certain degree of popularity and reputation in the international market.

郑州恒天大建桥梁钢构有限公司

Zhengzhou Hi-Tech Dajian Bridge Steel Co. LTD.

公司名称：郑州恒天大建桥梁钢构有限公司
Company Name: Zhengzhou Hi-Tech Dajian Bridge Steel Co., LTD.

产品领域：钢混结构组合桥梁 PC 桥波形钢腹板构件的设计、专业化生产制造、施工服务及其他钢结构桥梁的生产制造。

郑州恒天大建桥梁钢构有限公司（简称：恒天大建）是中国恒天集团有限公司（简称：恒天集团）下属企业恒天重工股份有限公司（简称：恒天重工）的控股子公司，公司成立于 2015 年 6 月，注册地为郑州市经济技术开发区第二十二大街以东、第二十五大街以西、南三环以南，注册资金 2300 万元。

公司主导业务包括钢混结构组合桥梁 PC 桥波形钢腹板构件的设计、专业化生产制造、施工服务及其他钢结构桥梁的生产制造。

恒天大建规划产能为 8 万吨，一期已建成投产，年度产能可达到 4 万吨波形钢腹板生产能力，公司拥有目前国内最先进的波形钢腹板生产线，包括数控机床、5000 吨模压机、自动化焊接生产线、自动化涂装生产线等设备，其中自动化喷涂生产线为全国唯一一家全自动生产线，采用机器人进行核心工序的操作，充分体现制造单元的数字化和自动化，未来该产品生产线将建设成为装备制造的智能化、数字化、自动化、节能环保示范基地。

恒天大建秉承“为股东创造效益，为客户创造价值，为员工创造机会，为社会创造财富”的企业宗旨，坚持“协同、创新、卓越”理念。在今后的发展道路上，将不断提高核心竞争力，立足于波形钢腹板 PC 组合桥梁的设计、加工制造与施工服务，为国家组合桥梁的发展做出新的更大的贡献。

Product Range: The design, specialized manufacturing and construction services of corrugated steel web components for PC bridge of composite steel structure, and the production of other steel bridges.

Zhengzhou Hi-Tech Dajian Bridge Steel Co., Ltd. (Hi-Tech Dajian) is the holding subsidiary of Hi-Tech Heavy Industry Co., Ltd. (HTHI), which is affiliated to China Hi-Tech Group Corporation (CHTC), founded in June 2015, with the registered capital of 23 million yuan, and located in the East of the 22nd Street, West of the 25th Street, South of the South 3rd Ring Road, Economic & Technological Development Zone, Zhengzhou city.

Company's leading business includes the the design, specialized manufacturing and construction services of corrugated steel web components for PC bridge of composite steel structure, and the production of other steel bridges.

Hi-Tech Dajian has a planned annual production capacity of 80,000 tons. The first phase has been completed and put into production, and the annual production capacity of corrugated steel web can reach to 40,000 tons. Company has the most advanced corrugated steel web production line in China, including CNC machine tools, 5000 tons molding machine, automatic welding production line, automatic coating production line and other equipment, of which the automatic spraying production line is the only automatic production line in China, using the robot to carry out the core operation, fully embodying the digitization and automation of the manufacturing unit. In the future, the production line will be built as a intelligent, digitized, automated, energy-saving and energy-efficient demonstration base for equipment manufacturing. Hi-Tech Dajian adheres to the enterprise purpose of “creating benefits for shareholders, creating value for customers, creating opportunities for employees, and creating wealth for the society”, and insists on the concept of “collaboration, innovation and excellence”. In the future development, we will continue to improve our core competitiveness, based on the design, processing, manufacturing and construction services of corrugated steel web PC composite bridges, and make new and greater contributions to the development of national composite bridges.

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1. 波形钢腹板

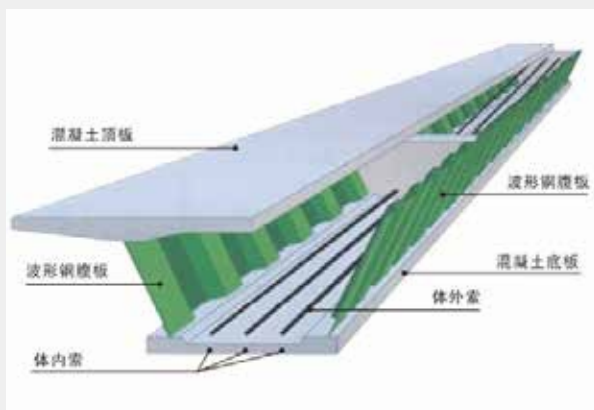


图 1-1

产品介绍

波形钢腹板 PC 桥（图 1-1、图 1-2）是波形钢腹板预应力混凝土箱梁桥的简称，就是用波形钢板取代预应力混凝土箱梁的混凝土腹板作腹板的箱形梁。其显著特点是用 16 ~ 24mm 左右厚的钢板取代厚 30 ~ 80cm 厚的混凝土腹板。鉴于顶底板预应力束放置空间有限，导致体外索的应用则是波形钢腹板预应力混凝土箱梁的第二个特点。

波形钢腹板预应力混凝土箱梁是一种钢—混组合结构，它充分利用了混凝土抗压，波形钢腹板质轻、抗剪屈服强度高的优点。由于波形钢腹板不抵抗作用的轴向力，所以能有效的对混凝土顶板、底板施加预应力，并且波形钢腹板不约束箱梁顶底板由于干燥收缩和徐变产生的变形，避免了由于钢腹板约束作用所造成的箱梁截面预应力损失。与预应力混凝土箱梁相比，波形钢腹板预应力混凝土组合箱梁恰当的利用了钢与混凝土的优点，提高了结构的稳定性、强度、及材料的使用效率，并且解决了桥梁工程中的腹板开裂的病害问题。

2. 其它产品

产品介绍

公司在承接波形钢腹板预应力混凝土桥相关业务外，同时也承接钢模板业务及其它结构类型的钢—混结构桥梁的设计与施工咨询服务业务。



图 1-2

Introduction of product

The corrugated steel web PC bridge (Figure 1-1,1-2) is the abbreviation of corrugated steel web prestressed concrete box girder bridge, which is to replace the concrete web of prestressed concrete box girder with corrugated steel plate as the box girder of the web. Its remarkable feature is to use the concrete web with the thickness of 30-80cm thickness instead the steel plate with the thickness 16-24mm. In view of the limited space for the pre-stressed beam of the top and bottom plates, the application of the external cable is the second feature of the prestressed concrete box girder with corrugated steel webs.

The corrugated steel web prestressed concrete box girder is a steel-mixed composite structure, which makes full use of the advantages of concrete compression resistance, and the strength that corrugated steel web has light weight and high shear yield. Because the corrugated steel web does not resist the axial force, it can effectively prestress the concrete roof and the bottom plate, and the corrugated steel web does not restrain the deformation caused by the drying shrinkage and creep of the box girder the bottom plate, avoiding the prestress loss of box girder caused by steel web restraint function. Compared with prestressed concrete box girder, corrugated steel web prestressed concrete composite box girder makes proper use of the advantages of steel and concrete, improves the stability, strength, and material use efficiency of the structure, and solves the web cracking problems of bridge engineering.

Introduction of product

In addition to the business of prestressed concrete bridges for corrugated steel webs, the company also undertakes the design and construction consulting services for steel formwork and other structural types of steel-concrete bridges.



图 2-1



图 2-2



图 2-3



图 2-4



图 2-5



图 2-6

主要业绩

1. 郑州市郑东新区文明路跨贾鲁河大桥

本桥位于郑东新区——郑州新区的中心位置，根据《郑东新区总体规划（2009—2020）》，这里未来是郑州中心城区与开封中心城区之间新的城市中心，支撑郑汴一体化的主要空间。（图 2-1）

2. 河北曲港高速南水北调大桥

本桥位于曲阳至黄骅港高速公路曲阳至肃宁段上，全桥用量 1270.3 吨。（图 2-2）

3. 河北西阜高速保定段胭脂河大桥

本桥位于西柏坡至阜平高速公路保定段上，桥梁跨越胭脂河。（图 2-3）

4. 宁夏石嘴山红崖子黄河公路大桥

红崖子黄河公路大桥工程位于宁夏石嘴山市惠农区及平罗县境内，全桥用量 3177.8 吨。项目的建设，对完善国家及区域干线公路网络，优化沿黄经济区跨河通道布局加快区域资源开发和产业发展具有重要意义。（图 2-4）

5. 河北太行山高速

本桥位于太行山高速公路邯郸段，包括龙虎河大桥、江家 1 号大桥、江家 2 号大桥、西坡大桥，全桥全长 2645 米，总重 1004 吨。（图 2-5）

6. 运城至灵宝高速公路运宝黄河大桥

本桥位于山西芮城县陌南镇柳湾村附近跨越黄河进入河南，接三门峡至浙川高速公路晋豫省界至灵宝段起点。该桥全长 1690 米，钢材用量 4571 吨。（图 2-6）

Main achievements

1. Bridge across the Jialu River - Civilization Road of Zhengdong New District, Zhengzhou City

The bridge is located in the center of Zhengzhou New District--Zhengdong New District. According to the "Zhengdong New District Master Plan (2009-2020)", it will a new urban center between Zhengzhou Central City and Kaifeng Central City, supporting the main space between integration of Zhengzhou and Kaifeng.(Figure 2-1)

2. South-to-North Water Transfer Bridge - Qugang Expressway of Hebei Province

The bridge is located on the expressway of Quyang to Suning section of the Quyang-Huangyugang expressway , with a total bridge consumption of 1270.3 tons. (Figure 2-2)

3. Yanzhi River Bridge - Baoding Section, Xifu Expressway of Hebei Province

The bridge is located on the Baoding section of Xibaipo to Zhangping Expressway, and the bridge spans the Yanzhi River. (Figure 2-3)

4. Hongyazi Yellow River Highway Bridge - Shizuishan of Ningxia Autonomous Region

The Hongyazi Yellow River Highway Bridge Project is located in Huinong District and Pingluo County of Shizuishan City, Ningxia with the total bridge consumption of 3177.8 tons. The project is of great significance for improving the national and regional trunk highway network and optimizing the layout of the river crossing along the Yellow Economic Zone to accelerate regional resource development and industrial development. (Figure 2-4)

5. Taihang Mountain Expressway - Hebei Province

The bridge is located in the Handan section of Taihang Mountain Expressway, including the Longhu River Bridge, the Jiangjia Bridge No. 1, the Jiangjia Bridge No. 2, and the Xipo Bridge. The full length of the bridge is 2,645 meters with the total weight of 1,004 tons. (Figure 2-5)

6. Yunbao Yellow River Bridge - Yuncheng to Lingbao Expressway

The bridge is located in the near of Liuwan Village, Monan Town, Rucheng County, Shanxi Province, across the Yellow River and enters into Henan Province. It connects the Sanmenxia to Luanchuan Expressway from the border of Shanxi Province and Henan Province to Lingbao Section. The bridge has a total length of 1,690 meters and a steel consumption of 4,571 tons. (Figure 2-6)

郑州宏达汽车工业有限公司

Zhengzhou Hongda Automobile Industry Co., Ltd.

公司名称：郑州宏达汽车工业有限公司

Company Name: Zhengzhou Hongda Automobile Industry Co., Ltd.

产品领域：内燃机

郑州宏达汽车工业有限公司始建于1998年，注册资本1.8亿元人民币。隶属于中国恒天集团，为国家专用汽车定点生产厂家。位于郑州汽车工业园郑州经济技术开发区经开第二十二大街以东、第二十五大街以西、南三环以南。年生产能力达到6000辆，公司占地600亩，采用现代化高精度流水线作业，进行专业化以及规模化生产。

公司2003年通过了ISO9001—2000质量管理体系认证，国家强制性产品汽车3C认证，2014年通过了环境管理体系认证，拥有健全、完善的质量管理体系。公司的技术开发能力、生产加工能力、检测试验能力在河南省专用车行业中位居前列，公司注重技术研发，支持新产品开发，已申请并拥有专利18项。2006年被河南省、郑州市定为扶优扶强重点企业之一，2010年被授予河南省名牌产品称号，2011年公司设计研发部被河南省政府批准为“河南省省级企业技术中心”。

Product Field: Internal-combustion engine

Zhengzhou Hongda Automobile Industry Co., Ltd, the subsidiary of CHTC, was founded in 1998 with registered capital of 180 million yuan as a national designated manufacturer for the special-purpose vehicles, which is located in the Economic and Technical Development Zone, Zhengzhou City, Henan Province of China. Enterprise covers an area of 400,000 square meters, adopts the automated high-level assembly line with professional and scale-up production, which can ensure the the annual production capacity of 6,000 units.

In 2003, we got the ISO9001-2000 International Quality Management System Certification and National Mandatory 3C Certification for the automobiles. In 2014, we acquired the Environment Management System Certification and set up a sound quality management system. Our technology development capability, production and detection ability were significantly increased with 18 patents. In 2006, we were positioned to be one of the key enterprises by Henan Province. Company technology R&D department has been approved by Henan government as "Henan Provincial Enterprise Technology Center" since 2011.

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1. 公司产品

1. Products



混凝土搅拌运输车
Concrete Mixer Truck with Foton Chassis



半挂车
Side Wall Semi Trailer



高低仓栅式半挂车
High-low Stake Semi Trailer



厢式运输半挂车
Van Semi Trailer



粉粒物料运输半挂车
Powder Material Transport Semi Trailer



干混砂浆运输车
Dry-mixed Mortar Truck



吸尘车
Vacuum Sweeper Truck



路面养护车
Road Maintenance Truck



纯电动车厢可卸式垃圾车
Electric Detachable Container Garbage Truck



小型洗扫车
Small Washing & Sweeping Truck



中型洗扫车
Mid-duty Washing & Sweeping Truck



大型干湿两用洗扫车
Heavy-duty Dry-wet Sweeping Truck



压缩式对接垃圾车
Side Loading Docking Garbage Truck



中型路面扫路车
Mid-duty Road Sweeper Truck



高压清洗车
High-pressure Cleaning Truck



压缩式垃圾车
Compression-type Garbage Truck



大型吸尘车
Heavy-duty Vacuum Sweeper Truck



洒水车
Water Sprinkling Truck



多功能喷雾抑尘车
Multifunctional Spraying Dust-settling Truck



车厢可卸式垃圾车
Detachable Container Garbage Truck



厢式物流运输车
Van logistics transporter



纯电动后装式自卸垃圾车
Pure electric rear loading dump truck



垂直式垃圾压缩中转站
Vertical garbage compression transfer station



纯电动三轮高压清洗车
Pure electric three wheeled high pressure cleaning vehicle



移动式垃圾压缩设备
Mobile garbage compressing device



旅居车
Recreational Vehicle

主要业绩

公司产品有城建工程车辆、物流运输车辆、环卫车辆、新能源车辆、市政养护车辆和特种车辆六大类产品，主要产品有混凝土搅拌运输车、散装水泥运输车、干混砂浆运输车、自卸车、环卫车辆与设备、半挂车、清障车、集装箱式运输车、纯电动厢式运输车、房车等 20 多个系列 200 多个品种。公司先后与一汽解放、陕汽、福田欧曼、东风、重汽、红岩、江淮等多家汽车底盘厂家建立长期战略合作关系，并与国内外 50 多家销售公司联合形成销售网络。产品远销澳大利亚、德国、沙特阿拉伯、外蒙古、巴基斯坦、孟加拉、越南、缅甸等国家。

Main achievements

There are 5 series core products: Engineering Vehicles, Logistic-related Vehicles, Sanitation Vehicles, and New Energy Vehicles. The main products are Concrete Mixer Truck, Bulk Cement Truck, Dry-mixed Mortar Truck, Dump Truck, Sanitation Trucks and Facilities, Semi-Trailer Trucks, Wrecker Truck, Van Truck, Electric Cargo Truck, Recreational Vehicle and so on more than 20 series of more than 200 varieties. Our company has the strategic cooperation relationship with many famous chassis manufacturers in China, such as FAW, Shacman, Foton Auman, Dongfeng, Sinotruk, SAIC Hongyan, JAC and so on. There are more than 50 sales company jointly formed a sales network in China. Products have been widely exported to Australia, Germany, Saudi Arabia, Mongolia, Pakistan, Bangladesh, Vietnam, Myanmar and other countries.

郑州恒天重型装备有限公司

ZHENGZHOU HI-TECH HEAVY INDUSTRY CO.,LTD

公司名称：郑州恒天重型装备有限公司
Company Name: ZHENGZHOU HI-TECH HEAVY INDUSTRY CO.,LTD

产品领域：纺织、化纤、核电、物流等行业

经过多年的积累和发展，公司形成了有特色的工艺开发制造体系。公司拥有工程技术人员、高级技师、技师、高级技工等各类人员三百多人，为公司给用户 提供高技术装备奠定了坚实的技术基础；公司拥有精良数控加工设备 80 多台套，已建立起了完备的数控金属加工体系，数控钣金加工体系，高精度检测体系，特种工艺装备体系和信息化体系等五大技术密集型的硬件体系，公司在高强度不锈钢，高强度铝焊接工艺方面，居于国内领先水平。

The spinning box produced by our company is a melt filament spinning box for unit equipment of filament spinning production lines such as polyester, nylon and polypropylene. The melt is metered and conveyed to the spinneret (plate) by the spinning pump in the tank, and the melt stream extruded from the spinneret hole is cooled and solidified in the spinning window to cool and solidify the filament fiber. It is wound on the bobbin by a winding mechanism. The equipment should mainly be used in the production of polypropylene and nylon. This product is compact in structure, small in area and high in production efficiency.

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1. 纺丝箱

1. Spinning box



纺丝箱
Spinning box

产品介绍

我公司生产的纺丝箱为熔体长丝纺丝箱，用于涤纶、锦纶和丙纶等长丝纺丝生产线的单元设备。熔体在箱体中经纺丝泵计量输送至喷丝头（板），由喷丝孔挤出的熔体细流在纺丝窗中遇到冷空气后冷却固化成长丝纤维，上油后由卷绕机构卷绕在筒管上。该设备主要应在丙纶和锦纶生产中，此产品结构紧凑，占地小、生产效率高。

Introduction of product

The spinning box produced by our company is a melt filament spinning box for unit equipment of filament spinning production lines such as polyester, nylon and polypropylene. The melt is metered and conveyed to the spinneret (plate) by the spinning pump in the tank, and the melt stream extruded from the spinneret hole is cooled and solidified in the spinning window to cool and solidify the filament fiber. It is wound on the bobbin by a winding mechanism. The equipment should mainly be used in the production of polypropylene and nylon. This product is compact in structure, small in area and high in production efficiency.

主要业绩

目前年产 36 台套。

Main achievements

At present, the annual output is 36 sets.

2. 粘胶滤机

2. Viscose filter



粘胶滤机
Viscose filter

产品介绍

主要应用于化纤粘胶产品，该产品是一种全自动连续过滤机，滤机设计了在线不停机反洗机构及其控制系统。所用的烧结金属网可以选择不同的微孔大小和形状来达到不同的过滤精度，在过滤过程中，随着金属网上沉积物的增加，滤层两侧压力差逐渐上升，当达到了预先设定的数值时，滤机内的反清洗装置利用小量的已过滤的粘胶进行反洗，可以使金属网重复使用。

主要业绩

目前年产 21 台。

Introduction of product

It is mainly used in chemical fiber viscose products. This product is a fully automatic continuous filter machine. The filter machine is designed with an online non-stop backwashing mechanism and its control system.

Main achievements

At present, 21 units are produced annually.

3. 空气净化系统的过滤装置箱体 3. Filter unit of air purification system



空气净化系统的过滤装置箱体
Filter unit of air purification system

产品介绍

该产品是与三代核电站配套的空气净化系统的过滤装置箱体，新型Ⅲ型碘吸附过滤装置具有效率高、净化效果好的特点，采用活性炭为过滤介质，箱体主要由 304、316L 不锈钢板材焊接而成。

Introduction of product

The product is a filter device box of the air purification system matched with the third-generation nuclear power plant. The new type III iodine adsorption filter device has the characteristics of high efficiency and good purification effect. The activated carbon is used as the filter medium, and the box body is mainly welded by 304, 316L stainless steel plate. Made.

主要业绩

国内红沿河核电站、福清核电站、田湾核电站、防城港核电站均已应用，并出口巴基斯坦等地区，年产 100 余台套。

Main achievements

Domestic Hongyanhe nuclear power plant, Fuqing nuclear power station, Tianwan nuclear power station and Fangchenggang nuclear power plant have been applied and exported to Pakistan and other regions, with an annual output of more than 100 sets.

4. 清梳辅机 4. Carding auxiliary machine



清梳辅机
Carding auxiliary machine



产品介绍

清梳辅机为国产梳棉机专门设计的配套辅助产品，包含 ZF0202 型包盖板针布机、ZFU293 型金属针布包卷机、ZFU294 型刺辊包卷机等共 29 个型号，适用于各种金属针布、弹性针布的包卷、磨砺，根据国际先进的棉纺针布包覆技术，结合我公司产品实际情况，自主研发生产，实现包覆拆卸、磨砺、研磨等功能，较其它同类机型，降低了工人劳动强度，提高了效率。

出口业绩

已出口越南、哈萨克斯坦等地区，年产 150 多套。

Introduction of product

The carding auxiliary machine is specially designed as an auxiliary product for the domestic carding machine, including 29 models of ZF0202 type package cover card machine, ZFU293 type metal needle cloth wrapping machine and ZFU294 type thorn roller wrapping machine. Various metal card clothing, elastic card clothing wrapping, honing, according to the international advanced cotton spinning clothing coating technology, combined with the actual situation of our company's products, independent research and development production, to achieve the functions of coating disassembly, grinding, grinding, etc. Similar models reduce the labor intensity of workers and improve efficiency.

Export performance

It has been exported to Vietnam, Kazakhstan and other regions with an annual output of more than 150 sets.

5. 物流输送机 5. Logistics conveyor



皮带输送机



伸缩皮带输送机



筒输送机

产品介绍

物流输送机具有速度快、效率高、输送平稳、运行顺畅等特点，是物流、电商行业必备是流水线输送设备之一，主要分为皮带输送机、伸缩皮带输送机、滚筒输送机等输送机，可根据客户要求进行设计、制造，满足客户的个性化要求。

Introduction of product

The logistics conveyor has the characteristics of high speed, high efficiency, stable transportation and smooth operation. It is one of the essential equipments for the logistics and e-commerce industry. It is mainly divided into belt conveyor, telescopic belt conveyor and roller conveyor. The machine can be designed and manufactured according to customer requirements to meet the individual requirements of customers.

主要业绩

与北京机场口岸、广州机场口岸、漯河内陆港、深圳平湖、深圳西区等国内口岸及物流中心配套，年产6条物流流水线。

Main achievements

It is matched with domestic ports and logistics centers such as Beijing Airport Port, Guangzhou Airport Port, Luohe Inland Port, Shenzhen Pinghu and Shenzhen West District, Main achievements: Annual production of 6 logistics lines.

6. 冷碾机设备 6. Cold mill equipment



冷碾机设备
Carding auxiliary machine

产品介绍

冷碾机是通过对零件毛坯的轮辗、压扩等方式进行冷加工成型的设备，采用一种新型无屑加工的、具有节约能源与材料的新工艺，该技术能最大限度地使成型的工件形状和精度接近于成品零件的形状和精度，尤以工件因加工工艺的特性形成的表面流线形致密层为优点，大大提高套圈类零件的品质和使用寿命。适用于轴承的内外套圈类零件、齿轮料坯等零件的半精加工。

主要业绩

年产 50 台

Introduction of product

The cold heading machine is a cold forming machine that performs cold forming on the blank of the part blank, adopts a new type of new technology without cutting, energy saving and material, which can maximize the formed workpiece. The shape and precision are close to the shape and precision of the finished part, especially the surface streamlined dense layer formed by the workpiece due to the characteristics of the processing technology, which greatly improves the quality and service life of the ferrule type parts. It is suitable for semi-finishing of parts such as inner outer ring parts and gear blanks of bearings.

Main achievements

50 units per year

主要技术参数

The main technical parameters

120 型 Type 120	参数名称 parameter name	参数数值 Parameter value
加工范围 Processing range	最大外径 (mm) Maximum outer diameter(mm)	Φ120
	最小内径 (mm) Minimum inner diameter(mm)	Φ60
	最大宽度 (mm) Maximum width(mm)	55
辗压力 (kN) Pressure (kN)		280
主轴转速 (r/mm) Spindle speed (r/mm)		260
主滑块最大行程 (mm) Main slider maximum stroke (mm)		120
主滑块进给速度 (mm) Main slider feed speed (mm)		0.02-15

恒天九五重工有限公司

CHTC JOVE HEAVY INDUSTRY Co.,Ltd.

公司名称：恒天九五重工有限公司
Company Name: CHTC JOVE HEAVY INDUSTRY Co.,Ltd.

公司是国家重点支持的、以设计、生产、销售工程机械、新型纺织机械和新材料装备为主业的高新技术企业。公司自 2007 年 2 月创立以来，迅速崛起。公司主营的工程机械、新型纺织机械和新材料装备，所有产品符合国家战略发展规划和装备制造业发展规划鼓励方向。工程机械主要有挖掘机、静力压桩机、长螺旋钻机、旋挖钻机、多功能钻机、水平定向钻机等多个系列品种。

As a high-tech company, CHTC JOVE gets strong national support, and it is developing, manufacturing, and marketing in the domains of construction machinery, advanced textile machinery and new material equipment. All the products of CHTC JOVE are meeting with the national strategy and corresponding to equipment manufacturing development. The main products for construction machinery includes excavator, static pile driver, long auger drilling machine, rotary drilling rig, multi-functional drilling rig, horizontal directional driller and a dozen series of varieties.

联系人及联系方式

Contact Person and Information

国际贸易：周涛 13637414963

国内业务：

挖掘机、水平定向钻机：傅强 17708489966

旋挖钻机：徐群清 18229709588

桩机、桩架、长螺旋、电旋挖：伍拥军 15116108688

地址：湖南长沙经济技术开发区漓湘东路 236 号

恒天九五重工有限公司

邮编：410100

International Marketing: Zhoutao 13637414963

Domestic business:

Hydraulic Excavator, Horizontal Directional Drilling Rig:

Fuqiang 17708489966

Rotary Drilling Rig: XuQunqing 18229709588

Hydraulic Static Pile Driver, Full Hydraulic Multifunction Pile Frame, MK-24S Crawler-type Drilling Machine, Long Auger Drilling Rig, Multi Function Drilling Rig (Electric Rotary Drilling Rig/Long Auger):

WuYongjun 15116108688

Add: No.236, Lixiang East Road, Economic and Technological Development District, Changsha, Hunan, 410100, China

1 液压挖掘机

1 Hydraulic Excavator



产品介绍

高端配置，舒适操作，便捷维护

- 世界知名品牌发动机
- 全球领先可靠的液压系统
- 优化设计的高强度、耐久性结构件
- 舒适人性化的驾驶空间
- 方便快捷，省时省力的保养维修
- 多种工作选择模式
- 可视化故障诊断系统

1. 知名品牌发动机

采用知名品牌发动机，动力强劲，高效可靠符合国III / 欧III排放标准，低震动、低噪音，节能、环保。

优良的冷却系统，动力性能发挥到极致

低温易启动，适用于高海拔、高寒地区作业。

2. 先进可靠的液压系统

更佳的液压系统，灵活的操作性是作业的核心。

驾驶员可根据作业需求，均衡分量，令动臂、斗杆、铲斗进行灵活、快捷、高效的作业，实现真正的随心而动。

泵、阀、马达等部件均选用进口元件，保证作业稳定可靠。

3. 优化设计的高强度、耐久性结构件

大量采用高强度、耐磨的合金钢板。

精心研发设计结构件，回转平台，下车架和工作装置均具有优良的力学性能。

大幅提高整体结构强度，支持强力挖掘，延长使用寿命。

铲斗：采用高强度耐磨材料，提高铲斗使用的耐久性。

Introduction of product

- Worldwide Famous Brand Engine
- Global Advanced and Reliable Hydraulic System
- Optimal Design of High Strength and Durability Structure
- Comfortable Operation Space
- Convenient and Efficient Maintenance
- Multiple working selection modes
- Visual Fault Diagnosis System

动臂斗杆：优化大，小臂的设计，增加了部分材料的厚度，有效提高重载作业时的可靠性。

油缸：油缸内部都设计了缓冲，可以吸收活塞与缸体的冲击，延长油缸寿命，降低噪音及振动。

4. 舒适人性化的驾驶空间

驾驶室采用骨架式结构，有效保护操作员的人身安全。

所有控制器均按人机工程学进行布置安装。

大屏幕显示器美观大方。

可调节的扶手和座椅，操作方便，有效缓解疲劳。

驾驶室玻璃面积大，视野宽广。

5. 方便快捷，省时省力的保养维修

独特的组合式大容量冷却系统设计，能有效增强散热，在超负荷或者连续作业的情况下，发挥机器超强散热性能。

液压油过滤系统采用知名流体控制厂家的配置，保养成本低，维护等级高。

日常保养方便：柴机油滤芯、油水分离器、空滤器等的设计，检查、更换的方便性。

2 旋挖钻机 2 Rotary Drilling Rig



产品介绍

自制专用底盘

卡特彼勒底盘

- 成孔速度快
- 入岩能力强
- 施工范围广
- 工法配备全
- 可靠性能高

卡特彼勒底盘与上车

卓越的设计理念，拥有可靠的系统与强劲的动力及可拓展性履带，能适应各种复杂工况，具有经济、高效、环保、稳定等多重特点。

动力系统

原装卡特彼勒电喷发动机，拥有强大动力和高强扭矩，直线电喷、涡轮增压，卡特自带的电控系统，可使发动机在每个转速档位发挥最大动力，在同样的作业条件下，可比国内同功率的设备节油。

液压系统

采用国际先进的设计理念，液压先导，比例操作；主、辅液压系统采用负流量与负载敏感结合控制，实现了流量的按需分配，保障了系统的传动效果，使设备运行更可靠、更经济、更高效、更节能。

电控系统

电气系统主要部件均采用德国或芬兰著名品牌，工程机械专用的控制器，对发动机、油泵、主阀以及控制手柄

Introduction of product

Self-made special chassis

CAT Undercarriage

- High efficiency
- Strong drilling rock ability
- High availability
- Full construction method
- Reliable performance

进行协调控制，在实现优越的操控性能同时，实现了工作过程中的高效、节能、环保；

独特设计的高智能故障监控系统，能准确的判断故障来源；

高精度的传感器确保钻机在施工过程中的精密测量和监控各个工况动作。

驱动装置

恒天九五 JVR 系列旋挖钻机采用专业厂家生产的动力头配备世界著名品牌邦飞利或布雷维尼减速机，采用重型避震弹簧、各种减震橡胶、减震器等多级减震设计，安全可靠，让施工更安心。

施工工法支持

我们热情为用户提供设备选型咨询，根据施工地质条件以及用户施工需求，为用户提供钻杆与钻具的配置建议，减少因设备配置不当而造成的施工效率低下，甚至造成设备无谓损害的情况发生。

3 液压静力压桩机

3 Hydraulic Static Pile Driver



产品介绍

JVY 系列液压静力压桩机拥有多项国家专利，是一种新颖的环保型建筑施工设备，具有无污染、无噪声、无震动、压桩速度快、成桩质量高等显著特点，代表未来桩工机械的发展方向。JVY 系列液压静力压桩机有 10 多个品种，压桩机从 60 吨—1200 吨。采用品质优良的材料与元器件，独特的液压管路设计与加工方法，保证了液压系统的清洁与高可靠性，在源头上保证了产品的高品质。秉承“一切为了客户”的服务理念，提供个性化设计，为客户提供更佳解决方案。

Introduction of product

JVY series hydraulic static pile driver is a new environmentally friendly pile foundation construction equipment with a number of national patents. It has the features of no pollution, no noise, no vibration, and fast pile driving, high quality pile. It is represent the future development tendency of piling machinery. JVY series hydraulic static pile driver has more than 10 varieties, the pressure capacity from 60 tons to 1200 tons. Using high quality materials and components, adopting the unique hydraulic piping design and processing methods ensures the clean and high reliability of hydraulic system. High quality is guaranteed from the headstream. We provide the best service and personalized design with the concept "All for the customers".

4 全液压多功能桩架

4 Full Hydraulic Multifunction Pile Frame



产品介绍

可配套液压打桩锤、液压振动锤、柴油锤、电动振动锤等工作装置，
可适用于预制桩、钢管桩、钢板桩等桩基础施工

整机采用大三角结构，结构稳定性好。立柱为可折叠式结构，整机不
需外部设备辅助，可实现自主起立立柱

采用履带式底盘，整机行走灵活。整机为全液压驱动，液压先导控制，
操作灵活，施工效率高

采用符合国Ⅲ标准的柴油发动机，符合国际、国家排放标准

立柱状态实现自动检测和动态显示，且具多重安全保护功能

能自动检测工作装置载荷状态，并实现液压系统与发动机的功率匹配
和自动怠速控制

- 整机总功率 Total Power: 125 KW
- 液压打桩锤 Hydraulic piling hammer: 5T 以下 Below
- 适用桩长 Applicable pile length: 14 m

5 MK-24S 履带式钻机 5 MK-24S Crawler-type Drilling Machine



产品介绍

- 转场便捷
 - 维修简单，性价比高
 - 行走稳定，作业安全
 - 对桩准确可靠
 - 行走灵活、迅速，施工效率高
-
- 最大功率 Maximum power: 194 KW
 - 最大转速 Maximum revolving speed: 2100 rpm
 - 输出转速 Output revolving speed: 6—12 rpm

Introduction of product

- Easy to transit
- Simple maintenance and high cost performance
- Stable movement and safety operation
- Accurate and reliable piling
- Flexible and rapid movement with high construction efficiency

6 长螺旋钻机

6 Long Auger Drilling Rig



产品介绍

长螺旋钻机是我公司吸收国内外先进技术研制的新产品。它是一种工业与民用建筑桩基础施工设备，广泛应用于工民用建筑的基础施工，也适用于交通，能源，软地基处理等工程的施工，其中 CFG 复合桩工法已被列为国家级新工法和国家施工规范。

Introduction of product

Long auger drilling rig is a new product which is based on domestic and international advanced technology. It is a construction foundation equipment, which is not only applied for piling foundation in housing construction ,but also for the traffic, energy engineering and soft base enhance, etc,. Currently CFG is listed as national new method and national construction standard.

7 多功能电旋挖钻机（长螺旋）

7 Multi Function Drilling Rig (Electric Rotary Drilling Rig/Long Auger Drilling Rig)



产品介绍

全球首创 一机多用

本产品在吸收了国内外同类产品的优点，同时克服了现有国内产品的弱点而设计的新一代桩工机械。整机采用了自行起架；整体运输的方式提高了安装效率，缩短准备时间，减少了人力劳动。整机功能方面也做了扩展，如根据施工需要不须任何改动只需改变顶部滑轮组的组合方式即可分别配置长螺旋和旋挖两种作业装置（选选项）；同时兼顾了挂各种锤的功能。

一机可实现长螺旋、旋挖钻机、挂锤等作业功能的转换。

Introduction of product

Global origination Multi Function

CHTC JOVE new generation Long Auger Drilling Rig absorbs the same product's advantages in worldwide and also improves the weakness of traditional domestic products. Whole machine adopt self erection frame work. No dispatches in transportation improve the efficiency in installation. The function can be altered by change the pulley combination for rotary drilling or CFG construction way. Different hammer construction way also can be realized in this machine.

The multi Function Drilling Rig can achieve the function conversions of the long auger drilling rig, rotary drilling rig and hanging hammer.

8 水平定向钻机

8 Horizontal Directional Drilling Rig



产品介绍

更高的性能配置，更好的作业效率，更强的动力输出

JVD 系列水平定向钻机是基于先进的“非开挖技术”理念设计开发的新型地下管道施工工程机械，该设备采用全液压及动力驱动技术，实现钻具的推进、回转、回扩、回拖及行走装置驱动等功能，主要用于穿越铁路、公路、建筑物、河流、以及在文化保护区、闹市区及农作物和植被保护区等不易开挖的条件下，进行供水、煤气、电力、电讯电缆、天然气、石油等管线的铺设和维护。

整机特点

JVD 系列水平定向钻机是在充分吸收国内外同类产品优点的基础上研发的新型钻机。产品设计新颖、独特，技术达到国际先进水平。整机采用高性能配置，具有较高的性价比。

该机整体性能优越、外形美观、制作精细。采用液压先导控制及电液控制技术，操作方便、舒适。

采用三联泵系统，工作可靠，维修方便，维修成本低。

推拉系统采用高压齿轮泵驱动，承载能力强。

动力头采用双速系统，工作效率高。

该机外形紧凑，通过性能好，机器施工、转场运输灵活方便。

Introduction of product

Horizontal Directional Drilling Rig is a new underground piping construction machinery which is based on the advanced theory of “Trenchless Technology”. With fully hydraulic and power-drive technology, it achieves drilling, rotating, back-broaching, back-towing, and travelling. It is widely used for pipeline construction and maintenance for water supply, coal gas, electric power, telecommunication, natural gas, and petroleum in railways, roads, buildings, rivers, and other construction-limited areas, such as cultural protection areas, downtown areas, crops and vegetation conservation areas.

9 JVT100 挖树机

9 JVT100



产品介绍

JVT100 挖树机是恒天九五重工自主研发的一款全新产品，拥有多项国家专利。适用范围广，可用于城市园林，林场、苗圃、果园的带土苗木的移植，最大可移植树木直径为170mm。

产品性能

操作简单，易于掌握；

适合多种土质，土球完整，省时省力；

挖掘速度快，效率高；

配有可伸缩履带，适合在狭窄的行距树林间穿行与行进；

具有多种配件可以选配，包括后平铲、伸缩起重臂、前挖掘铲等；

满足国三排放要求，节能环保。

主要业绩

公司产品性能稳定可靠，在行业中处于国内领先地位，畅销全国，出口全球 30 多个国家和地区。公司系国家“重点高新技术企业”、“国家技术创新示范企业”、“国家火炬计划重点高新技术企业”、“湖南省推进新型工业化‘双百’工程项目企业”、湖南省“重点建设项目”企业；公司拥有一个国家级技术中心分中心，3 个省级技术中心，申请专利 300 多项，200 余项已获授权；公司先后承担国家级、省级科研项目 20 多项，多次获得政府知识产权方面的奖励，多项科技创新成果居国内领先，多项产品获国家标准化委员会颁发的《采用国际标准产品标志证书》，先后主持和参与制定工程机械、纺织机械产品国家标准 10 多项。企业研发能力与生产能力、发展速度和高成长性在湖南省工程机械行业和全球纺织机械行业中名列前茅。

1、挖掘机械 公司目前主导销售产品为小型挖掘机，该系列产品具有设计性能先进，性价比好，效率高，油耗低的特点，小型挖掘机湖南省内位居第二，挖掘机械总销量国内企业行业排名进入前 20 强。公司通过充分学习、借鉴、应用其先进技术，尤其是引进以上企业的高新技术人才，重视挖掘机核心部件的研发，生产出具有市场竞争力、工作效率高、智能化程度高、节能低耗的挖掘机。

2、桩工机械 公司目前生产的桩工机械主要有静力压桩机、长螺旋钻机、旋挖钻机、多功能电旋挖、桩架及作业装置等产品。在静力压桩机产品领域，公司目前处于国内企业中行业第二的位置，产品谱系较全面，能够按照客户需求提供个性化的产品；长螺旋钻机行业排名第一；多功能电旋挖、桩架及作业装置为行业领先产品，主导国内外市场；旋挖钻机产品通过这几年的发展。销量进入全国六强。恒天九五依托省级技术中心，省级桩工机械工程研究中心，公司成为基础施工领域全套装备提供者。

3、非开挖设备：公司自主研发生产的产品，该产品经过几年的市场洗礼，2016 年进行全面提升和改造，现达到了批量生产，并且占据了国内外较高的市场份额。

Main achievements

The performances of the equipments are stable and reliable. Those equipments are in the leading position of their domains, and have been sold to the whole country and also have been exported to over 30 foreign countries.

CHTC JOVE is the member of Double-hundred New Industrialization plan, Provincial Priority Support Company and also the super new star in China construction machinery industry. JOVE brand is listed on China famous brand. In accordance with GB/T19001-2000idt ISO9001:2000 quality management system standards, CHTC JOVE establish, implement and maintain the quality management system. We have obtained "ISO9001 quality management system certification", applied for 300 patents and got intellectual property prizes. Scientific and technological innovation is moving ahead and a number of our products are awarded "Adopting International Standard Certificate" issued by the State Committee of Standardization.

保定天鹅新型纤维制造有限公司

Baoding Swan fiber co.,ltd.

公司名称：保定天鹅新型纤维制造有限公司

Company Name: Baoding Swan fiber co.,ltd.

产品领域：主要用在纺织服装、家纺、无纺布、婴幼儿用品、医疗用品等方面。

Product range: textile and clothing, home textile, nonwoven, child products, medical treatment articles

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1 莱赛尔短纤维 1 lyocell staple fiber

1.1 产品



元丝
"oricell" brand lyocell staple fiber



莱赛尔元丝纱线筒子
oricell cone

1.2 获奖证书

科学技术成果鉴定证书
authentication certificate莱赛尔绿色纤维认证证书
Certificate of green fiber欧盟 OEKO-TEX100 认证证书
Standard 100 by oeko-tex product class I元丝创新科技证书
Science and technology innovation certificate科技进步一等奖
Science and technology progress first prize高新技术企业证书
High-tech enterprise certificate



“元丝”品牌入选中国纤维流行趋势
2016/2017
China fibers fashion trends certificate 2016/2017



“元丝”品牌入选中国纤维流行趋势
2017/2018
China fibers fashion trends certificate 2017/2018



“元丝”品牌入选中国纤维流行趋势
2018/2019
China fibers fashion trends certificate 2018/2019



化纤行业标准化创新奖
Fiber industry standardization innovation prize



化纤行业品牌质量奖
Fiber industry brand quality prize

产品专利
Patent

序号 NO.	专利号 patent number	证书号 Certificate number	专利名称 Patent name	申请日 Application date	授权日 Authorization date	专利到期日 Patent expiration date	专利权利人 Patent owner	备注 remark
1	ZL201420442904.5	3984110	一种丝束水洗机 A tow washing machine	2014 年 8 月 7 日 07-Aug-14	2014 年 12 月 10 日 10-Dec-14	2024 年 8 月 6 日 06-Aug-24	保定天鹅新型纤维制造有限公司 Baoding swan fiber co.,ltd.	莱赛尔 专利 lyocell patent
2	ZL201420442965.1	3980993	一种导丝装置 A guide wire device	2014 年 8 月 7 日 07-Aug-14	2014 年 12 月 10 日 10-Dec-14	2024 年 8 月 6 日 06-Aug-24	保定天鹅新型纤维制造有限公司 Baoding swan fiber co.,ltd.	莱赛尔 专利 lyocell patent
3	ZL201420443245.7	3977846	一种纺丝机的导丝刮水器 Wire guide wiper for spinning machine	2014 年 8 月 7 日 07-Aug-14	2014 年 12 月 10 日 10-Dec-14	2024 年 8 月 6 日 06-Aug-24	保定天鹅新型纤维制造有限公司 Baoding swan fiber co.,ltd.	莱赛尔 专利 lyocell patent
4	ZL201420442924.2	3980623	一种过滤机滤网孔板的拆卸工具 A dismantling tool for filter screen hole plate of filter	2014 年 8 月 7 日 07-Aug-14	2014 年 12 月 10 日 10-Dec-14	2024 年 8 月 6 日 06-Aug-24	保定天鹅新型纤维制造有限公司 Baoding swan fiber co.,ltd.	莱赛尔 专利 lyocell patent
5	ZL201621140723.2	6166386	一种丝束卷绕机 A tow winding machine	2016 年 10 月 20 日 20-Oct-16	2017 年 5 月 24 日 24-May-17	2026 年 10 月 19 日 19-Oct-26	保定天鹅新型纤维制造有限公司 Baoding swan fiber co.,ltd.	莱赛尔 专利 lyocell patent
6	ZL201721497808.0	7493548	一种 lyocell 短纤维切断机喂丝切丝装置 A feeding and cutting device for Lyocell staple fiber cutter	2017 年 11 月 11 日 11-Nov-7	2018 年 6 月 19 日 19-Jun-18	2028 年 6 月 18 日 18-Jun-28	恒天纤维集团有限公司、保定天鹅新型纤维制造有限公司、恒天生物基材料工程技术（宁波）有限公司 Hi-tech fiber group corporation, Baoding swan fiber co.,ltd., Hi-tech biobased materials engineering and technology (Ningbo)co.,ltd.	莱赛尔 专利 lyocell patent
7	ZL201721497819.9	7501310	一种带冷凝水导流功能的称重装置 Weighing device with condensation water diversion function	2017 年 11 月 11 日 11-Nov-7	2018 年 6 月 19 日 19-Jun-18	2028 年 6 月 18 日 18-Jun-28	恒天纤维集团有限公司、保定天鹅新型纤维制造有限公司、恒天生物基材料工程技术（宁波）有限公司 Hi-tech fiber group corporation, Baoding swan fiber co.,ltd., Hi-tech biobased materials engineering and technology (Ningbo)co.,ltd.	莱赛尔 专利 lyocell patent

主要业绩

保定天鹅新型纤维制造有限公司是中国恒天集团旗下的国有独资企业，主营业务为溶剂法纤维素短纤维、粘胶纤维、纤维素浆粕、纺织品辅助原料加工、销售等业务。保定天鹅地处河北省保定市西郊工业区，前身为国营保定化学纤维联合厂，始建于1957年10月，是我国“一·五”计划期间156项重大建设项目之一，全套引进原民主德国纤维素纤维长丝生产线，是新中国成立后，为完善工业布局，填补化学纤维工业空白而建设的第一座大型化学纤维联合企业。是中国最大的纤维素纤维长丝生产商之一，在国内外市场占有重要的地位。

1994年11月，保定化学纤维联合厂改制成立保定天鹅化纤集团有限公司。1997年，保定天鹅在深圳证券交易所上市，是保定市第一家上市公司。2009年9月，战略重组为中央企业中国恒天集团有限公司成员企业。2014年12月，中国恒天和恒天纤维分别将所持公司股份（总股本的29.80%）转让给深圳市华讯方舟科技有限公司。华讯方舟成为公司第一大股东。2015年1月30日，成立保定天鹅新型纤维制造有限公司，2015年6月公司原主业资产由上市公司剥离，由恒天集团回购，成为恒天纤维集团有限公司的全资子公司。

多年来，保定天鹅一直致力于推动中国纺织工业的发展，建有完善的产品研发、工艺技术、生产制造、市场营销、经营管理体系。拥有国家级企业技术中心及国家认可委（CNAS）认定的国家级检测实验室，大规模半、全连续式纺丝生产线以及纤维素纤维制造自控、酸浴闪蒸等最先进的控制系统。主导产品“天鹅”牌粘胶长丝多年来荣获国家银质奖章，著名商标等各种国家级奖章和证书，并在全国纺织系统出口产品中首家获准加附CCIB中国商检质量标志，获得ISO9002国际标准质量体系认证。“天鹅”牌商标被国家工商行政管理局认定为中国驰名商标，通过欧盟OEKO—TEX100认证。产品畅销十几个国家和地区。

公司积极推进战略转型升级工作，2014年1月建成年产能1.5万吨Lyocell纤维生产线，成为国内第一家万吨级Lyocell纤维制造商。保定天鹅承担的中国纺织工业联合会科技指导性项目《新溶剂法再生纤维素纤维产业化技术》（编号2015002），于2016年1月21日通过中国纺织工业

Main achievements

Baoding Swan Fiber Co., Ltd. is a wholly state-owned enterprise under China Hi-Tech Group Corporation. Its main business is the processing and sales of solvent cellulose staple fiber, viscose fiber, cellulose pulp, textile auxiliary raw materials, etc. Baoding Swan is located in the western suburb of Baoding City, Hebei Province, the former state-owned Baoding Chemical Fiber Plant, was founded in October 1957, is one of 156 major projects during the First Five-Year Plan period, the introduction of a complete set of former Democratic German cellulose fiber filament production line, after the founding of New China, in order to improve the industrial layout. The first large-scale chemical fiber joint enterprise was built to fill the blank in the chemical fiber industry. It is one of the largest cellulosic filament producers in China and occupies an important position in the domestic and foreign markets.

In November 1994, Baoding chemical fiber joint factory was restructured to establish Baoding Swan Co., Ltd. In 1997, Baoding Swan was listed on the Shenzhen stock exchange. It was the first listed company in Baoding. In September 2009, Baoding Swan Chemical Fiber Group Co. Ltd and China Hi-Tech Group Corporation implemented the strategic restructuring... In December 2014, China Hi-Tech group Corporation and Hi-Tech Fiber Corporation transferred their shares (29.80% of their total equity) to Shenzhen Huaxun Ark Technology Co., Ltd. Hua Xun ark became the largest shareholder of the company. On January 30, 2015, Baoding Swan Fiber Co., Ltd. was established. In June 2015, the original assets of the company were stripped from the listed company and repurchased by China Hi-Tech Group Corporation, becoming a wholly-owned subsidiary of Hi-Tech Fiber Corporation.

Over the years, Baoding Swan has been committed to promoting the development of China's textile industry, the establishment of a sound product development, process technology, production and manufacturing, marketing, business management system. It has the state-level enterprise technology center and the state-level testing laboratory recognized by the State Accreditation Commission (CNAS), the large-scale semi-continuous spinning production line and the most advanced control system of cellulose fiber manufacturing automation, acid bath flash and so on. The leading product "Swan" brand viscose filament has won the national silver medal, the famous trademark and other national medals and certificates for many years, and was allowed to add CCIB China inspection quality mark to the national textile system export products for the first time, and obtained the ISO9002 international standard quality system certification. "Swan" brand trademark is recognized by the State Administration for Industry and Commerce as a well-known trademark in China, through the European Union OEKO—TEX100 certification. The products sell well in more than ten countries and regions.

The company actively promotes the strategic transformation and upgrading work. In January 2014, the company completed an annual production capacity of 15,000 tons lyocell fiber production line, becoming the first domestic 10,000 tons lyocell fiber manufacturer. Baoding

联合会成果鉴定（纺科鉴字[2016]第4号）。形成了1.5万吨/年Lyocell短纤维生产成套技术与装备体系，并实现了产业化生产，使我国的Lyocell纤维生产技术达到国际先进水平，对我国纤维素纤维绿色生产技术具有示范作用。

《万吨级新溶剂法纤维素纤维产业化关键技术研发与产业化》项目荣获中国纺织工业联合会2016年科学技术进步奖一等奖。Lyocell纤维通过Oeko-Tex100规定最严格的I级婴幼儿级纺织品权威检测，取得使用最为广泛的瑞士Oeko-TexStandard100权威纺织品生态标志认证证书；同时获得了化纤行业协会授予的绿色纤维证书；2016/2017年和2017/2018年连续两年入选中国纤维流行趋势。

2016年为占领我国溶剂法再生纤维素纤维的制高点，作为国内行业的领军者，以第一起草单位制定了《交联莱赛尔短纤维》化纤工业协会团体标准，树立了保定天鹅在Lyocell领域的领先地位。2017年度成为修订《莱赛尔短纤维》FZ/T 52019行业标准的第一起草单位，获得了行业话语权，进一步确立了保定天鹅在国内Lyocell领域的领先地位。《莱赛尔短纤维》FZ/T 52019标准已于2018年9月1日发布实施。《交联莱赛尔短纤维》T/CCFA 01026-2016荣获2016年度中国恒天集团有限公司标准奖。2018年3月保定天鹅新型纤维制造有限公司荣获中国化学纤维工业协会标准化创新先进单位。

公司高度重视核心技术和工艺的专利布局工作，积极推进Lyocell专利布局战略的实施。围绕自主的Lyocell纤维核心与关键技术开展专利申请，并针对核心技术进行专利布局，对企业核心技术进行保护。公司已获得Lyocell纤维授权专利8项，同时还有多项专利技术正在申报过程中。

Swan undertook the scientific and technological guidance project of China Textile Industry Federation "New Solvent Regenerated Cellulose Fiber Industrialization Technology" (No. 2015002), which passed the appraisal of the results of China Textile Industry Federation on January 21, 2016 (Textile Reference No. 4). A complete set of technology and equipment system for lyocell staple fiber production has been formed, and industrialized production has been realized. The production technology of Lyocell staple fiber in China has reached the international advanced level, which has a demonstration effect on the green production technology of cellulose fiber in China. "Ten thousand tons of new solvent cellulose fiber industrialization key technology research and development and industrialization" project won the China Textile Industry Federation 2016 Science and Technology Progress Award first prize. Lyocell fiber has obtained the most widely used Swiss Oeko-Tex Standard 100 authoritative textile eco-label certification certificate through Oeko-Tex 100, which is the most stringent grade I infant textile authoritative test stipulated by Oeko-Tex 100. At the same time, lyocell fiber has obtained the green fiber certificate awarded by the Chemical Fiber Industry Association and China fibers fashion trends certificate 2016/2017, 2017/2018.

In 2016, in order to occupy the commanding heights of solvent regenerated cellulose fiber in China, as a leader in the domestic industry, the first drafting unit formulated the group standard of Cross-linked Lyocell Staple Fiber by Chemical Fiber Industry Association, and established the leading position of Baoding Swan in the field of lyocell. In 2017, it became the first drafting unit to revise the industry standard FZ/T 52019 of lyocell Staple Fiber, and gained the right to speak in the industry, further establishing the leading position of Baoding Swan in the domestic lyocell field. The lyocell staple fiber FZ/T 52019 standard was promulgated and implemented in September 1, 2018. T/CCFA 01026-2016 was awarded the Standard Award of China High-tech Group Corporation in 2016. In March 2018, Baoding Swan Fiber Co., Ltd. won the honor of China Chemical Fiber Industry Association Standardization Innovation Advanced Unit.

The company attaches great importance to the patent layout of core technologies and processes, and actively promotes the implementation of lyocell's patent layout strategy. The patent application is carried out around the independent lyocell fiber core and key technology, and the patent layout for the core technology is designed to protect the core technology of the enterprise. The company has obtained eight lyocell fiber patents and several patented technologies are in the process of filing.

恒天宝丽丝生物基纤维股份有限公司

HI-TECH POLYACE BIOBASED FIBER CO., LTD.

公司名称：恒天宝丽丝生物基纤维股份有限公司

Company Name: HI-TECH POLYACE BIOBASED FIBER CO., LTD.

产品领域：纺织

公司主研生物基纱线等高新技术产品。产品织物丝滑干爽、光泽莹润、透气保湿又具有良好的亲肤性和悬垂性。

Product area: textile

1. the company is research on bio-based yarn and other high-tech products. The product fabric is silky, dry, lustrous, breathable and moisturizing, and has good skin-friendly and drape.

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产品图片
Product picture



天蚕丝布片
Tian Silk yarn fabric



蒙娜纱布片
Mona yarn fabric



普京丝布片
Putin yarn fabric



宝莱纱布片
Baolai yarn fabric



天蚕丝 — 常州市高新技术产品认定证书
Tian Silk yarn—High and new technology product identification certificate of Changzhou



蒙娜纱 — 常州市高新技术产品认定证书
Mona yarn fabric—High and new technology product identification certificate of Changzhou



普京丝 — 常州市高新技术产品认定证书
Putin yarn fabric—High and new technology product identification certificate of Changzhou



宝莱纱 — 常州市高新技术产品认定证书
Baolai yarn fabric—High and new technology product identification certificate of Changzhou

主要业绩

天蚕丝、蒙娜纱、普京丝、宝莱纱等四款纱线因其品质的优良性及稳定性，获得高新技术产品证书，赢得了高端品牌商的青睐。产品远销欧洲、南美、日本、韩国等市场。

Main achievements

Tian Silk, Mona, Putin, Baolai yarn and other four yarns because of its quality and stability, won the high-tech product certificate, won the favor of high-end brand. Products are exported to Europe, South America, Japan, South Korea and other markets.

恒天长江生物材料有限公司

CHTC CHANGJIANG PLA CO.,LTD.

公司名称：恒天长江生物材料有限公司

Company Name: CHTC CHANGJIANG PLA CO.,LTD.

产品领域：卫生材料、填充材料、食品包装

Product area: Sanitary materials,Filling material,Food packaging material

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产品图片
Product picture



聚乳酸长丝
PLA Filament



聚乳酸短纤维
PLA Staple fiber



聚乳酸无纺布
PLA Nonwoven

主要业绩

恒天长江生物材料有限公司是全球最宽泛的聚乳酸纤维和无纺布供应商，是目前全球采用熔体直纺专利技术生产聚乳酸纤维的唯一制造商。

公司主要生产各种规格聚乳酸长丝、短丝、无纺布产品，尤其是差别化聚乳酸纤维，如双组份纤维、三维立体纤维等，可以根据客户各种应用需求量身定制纤维和无纺布等产品。

恒天长江通过与恒天旗下纺机设备制造商合作，开发建设了世界上第一条聚乳酸热粘合无纺布生产线已投入运营，使聚乳酸热粘合无纺布产品率先在卫材行业实现商业化，2016 年开始已批量出口欧美和澳洲市场。

另外，恒天长江的聚乳酸制品应用非常广泛，在园艺、农业、水利、造纸、食品包装、家纺填充、家用空调和汽车空调的过滤芯、汽车内饰、擦拭类清洁用品等产业用布方面都已开始应用。

聚乳酸是一种可再生、可完全生物降解的高分子材料，来自于可循环的天然植物而非石油。由天然植物如木薯中提取淀粉转换为糖并经过菌种发酵制得乳酸，通过聚合乳酸形成聚乳酸 PLA。PLA 制品废弃后在土壤中经微生物作用可分解为二氧化碳和水。聚乳酸纤维由于其优良的综合性能广泛的应用于纺织品、填充、个人卫生用品等区域。由于 PLA 有着优异的生物相容性，使得 PLA 产品有着安全与健康的益处和其他具有降解性能的天然纤维相比，PLA 是能够进行熔融加工的可生物降解纤维，不仅具有许多和一般合成纤维相同的特征，比如一定的卷曲度、光滑表面、回弹性以及低反潮性，而且具有天然纤维的可生物降解性和舒适度。

Main achievements

CHTC CHANGJIANG PLA CO.,LTD.,the supplier of the broadest range of PLA fibers and nonwovens,is the only manufacturer employing the direct-spinning patented technology to produce PLA fiber.

We mainly produce PLA filaments, staple fibers and nonwovens of various specifications. Our featured products are Bi-component fibers, three dimensional fibers and other differential PLA fibers. We are capable of providing customized PLA fibers and nonwovens according to different applications of clients.

Cooperating with CHTC textile machinery manufacturer,we develop and equip with the world's first thermal bonded nonwoven line,which realizes the commercial production of the PLA thermal bonded nonwovens in hygiene industry. Since 2016, our PLA products have been massively exported to Europe, U.S. and Australia as regular orders.

There is a wide range of applications of our PLA products. They have been widely used in such areas as gardening, agriculture, water conservancy, paper making, food package, fiberfill in home textiles,filter of household and automotive air conditioner, automotive interior and wipes industry, etc.

The advantage for PLA material as its outstanding performance is safer and friendly for planet. PLA is made from renewable biobased resources and has a considerably lower carbon footprint than other plastics. It is also biodegradable, leaving behind no harmful substances. PLA offers a closed-loop product lifecycle from nature and back to nature,especially relevant in the fiber industry. PLA boasts outstanding drapability, breathability and durability. With a soft and natural feel, PLA can be spun with cotton or silk to produce

yarns made from 100% renewable materials. Whether for fast-moving high street fashion, soft pillow filling, hygienic products, or skin-friendly disposable cleansing wipes, PLA is an excellent material for fiber products. Not only is the material good for people and profit. It also benefits planet, being 100% biobased with a reduced carbon footprint when compared to oil-based counterparts.

恒天中纤纺化无锡有限公司

Company name:CHTC sinofiber wuxi co., LTD.

公司名称：恒天中纤纺化无锡有限公司

Company Name: Company name:CHTC sinofiber wuxi co., LTD.

产品领域：锦纶 6 切片、锦纶 6 短纤维

Product field: nylon 6 chips, nylon 6 staple fiber

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1 锦纶 6 切片

1 Nylon 6 sections



图 1 有光切片
Bright PA6 chips



图 2 半光切片
Semi-dull PA6 chips

产品介绍

相对粘度 2.4—3.0，有光（图 1）和半消光（图 2）。

Introduction of product

relative viscosity 2.4-3.0, with Bright (Figure 1) and Semi dull (Figure 2).

2 锦纶 6 短纤维 2 Nylon 6 staple fiber



图 3-1 高强纤维
Highstrength nylon 6 staple fibers



图 3-2 高强纤维应用



图 4 -1 Non-circular Cross section nylon 6 staple fibers
Non-circular Cross section nylon 6 staple fibers



图 4 -2 异截面纤维应用

产品介绍

高强系列：单纤断裂强度 $\geq 6.5\text{cN/dtex}$ ，大幅提高纱线断裂强度和面料断裂撕破强度。（图 3）

异截面系列：通仿真仿生研究，生产如三角形、三叶型、十字型、中空型等高异形度聚酰胺短纤维，赋予服装面料钻石般光泽、抗起毛起球、吸湿排汗、丝绸感等新的性能。（图 4）

Introduction of product

High strength series: single fiber breaking strength is greater than 6.5cN/dtex , which greatly increases yarn breaking strength and fabric breaking and breaking strength.(Figure 3)

Non-circular Cross section series: through simulation and bionic research, the production of such as triangle, trifoliate, cruciform, hollow polyamide staple fiber with high heterogeneity, which endows the clothing fabric with diamond-like luster, anti-pilling, moisture absorption and perspiration, silk feeling and other new properties.(Figure 4)



图 5 -1 咖啡炭纤维
Coffee Charcoal nylon 6 staple fibers



图 5-2 吸光发热纤维
Warming absorb and save external heat nylon 6 staple fibers



图 6 凉感纤维
Cool nylon 6 staple fibers



图 7 阻燃纤维
Flame retardant nylon 6 staple fibers

产品介绍

蓄热保暖系列：高效光热转化能力，优异蓄热功能。（图 5）

冰凉系列：快速散热、舒适冷感、抑菌防臭、抗 UV。
（图 6）

保健防护系列：永久阻燃，低烟毒性；消除疲劳，促进体能恢复；改善睡眠，增强免疫力；环境净化。（图 7）

Introduction of product

Heat storage and heat preservation series: high efficient photothermal conversion ability, excellent heat storage function.(Figure 5)

Cool series: rapid heat dissipation, comfortable cold sense, anti - odor bacteria, anti - UV.(Figure 6)

Health protection series: permanent flame retardant, low smoke toxicity; Eliminate fatigue and promote physical recovery; Improve sleep and strengthen immunity; Clean up the environment.(Figure 7)

主要业绩

公司成立于 2000 年，是国内较早专门从事锦纶切片和锦纶短纤维的企业。2016 年建成了国内首套采用蒸汽三元流高速离心再压缩技术的锦纶 6 切片单体回收系统，经专家组验收，该套技术达到国际先进水平。2017 年公司研发的高品质高强锦纶 6 短纤维，迅速占领细分市场 80% 以上份额，并被收录入《军民融合深度发展纤维新材料与产品推荐目录（2018 年度）》。

Main achievements

The company was established in 2000, is the domestic earlier specialized in nylon chips and nylon staple fiber enterprises.

In 2016, the first domestic nylon 6-section monomer recovery system adopting the steam ternary flow high-speed centrifugal recompression technology(MVR) was built. Upon the inspection and acceptance by the expert group, the technology reached the international advanced level.

In 2017, the high-quality and high-strength nylon 6 short fibers developed by the company rapidly occupied more than 80% of the market segment, and were included in the "new fiber materials and product recommendation catalogue for in-depth development of civil-military integration (2018)".

恒天海龙（潍坊）新材料有限责任公司

CHTC HELON (WEIFANG) NEW MATERIALS CO.,LTD.

公司名称：恒天海龙（潍坊）新材料有限责任公司
Company Name: CHTC HELON (WEIFANG) NEW MATERIALS CO.,LTD.

恒天海龙（潍坊）新材料有限责任公司始建于1984年，年产差别化及常规粘胶短纤维17万吨。公司是中国新型再生纤维素纤维及制品的研发和生产基地，引领着中国再生纤维素纤维行业的发展。

公司传统优势产品常规粘胶短丝，在客户中获得了良好的信誉和市场的广泛认可。公司技术实力雄厚，先后成功开发出科技含量和附加值较高的艾丝纶纤维、安芙赛阻燃纤维、安芙丽阻燃纤维、相变储能纤维素纤维、无染纤维、麻赛尔纤维等系列新产品，其中两项处于世界领先水平，多项填补国内空白，该系列产品已实现产业化并在市场上形成了较大、持续影响力，产品销往东南亚、欧盟、中东、南美等二十多个国家和地区。

CHTC HELON (WEIFANG) NEW MATERIALS CO., LTD., founded in 1984, Its annual output of viscose staple fiber stands at 170,000 tons. Spearheading the nation's regenerated cellulose industry, the company has become the R&D and production base of the new regenerated cellulose fiber products in China.

Regenerated cellulose fibres are fibers made from natural cotton fiber or wood fiber through a scientific processing method, featuring environmental friendliness and degradability. In this green industry, it has become typical of the biopolymer fiber. At present, we have successfully developed many high-tech and higher value-added products such as azelon fiber, flame retardant fiber, jutecell fiber and color fiber. Among them, two have entered leading ranks worldwide and many have filled the country's blank. The said products have been industrialized and sold to more than 20 countries and regions including Southeast Asia, European, Middle East and South America, exerting great and continuing influence in the market.

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1 艾丝纶纤维 1 HL-Azlon fiber



艾丝纶纤维



艾丝纶纤维成品

产品介绍

艾丝纶纤维是利用自有专利技术，以纤维素和蛋白质为主要原料，结合特殊成型工艺制备的新型纤维素纤维。除保持纤维素纤维原有优良特性外，该纤维还具有独特的截面形态，吸湿发热值极高，并在微观结构上实现了纤维素材料和蛋白质材料的完美共存，是一种新型、健康、时尚、绿色环保、能够自然呼吸的生态纺织纤维。

Introduction of product

HL-Azlon fiber is a new cellulose fiber use own patent technology, cellulose and protein as the main raw material, combines with the special molding process. In addition to its original excellent characteristics, the fiber also has a unique cross section shape, heat last value is extremely high, and realizes the perfect coexist of cellulose material and protein material on micro-structure ,so it is a new kind, health, fashion, green environmental protection, natural breathing ecological textile fiber.

2 安芙赛阻燃纤维

2 The Anti-fcell flame retardant fiber



阻燃纤维



阻燃纤维成品

产品介绍

安芙赛阻燃纤维是在国家“863”计划研究成果基础上开发的一种具有阻燃抗熔滴性能的高技术纤维新材料。该产品采用新一代纤维阻燃技术—溶胶凝胶技术，使无机高分子阻燃剂在粘胶纤维有机大分子中以互穿网络状态存在，保证了纤维优良的物理性能。

Introduction of product

The fiber is achieved the industrialization production in July 2005. Anti-fcell flame retardant fiber which developed on the basis of the results of the national "863" plan is a kind of high-tech fiber material with the performance of flame-retardant anti-droplet. The product is produced by a new generation of fiber flame retardant technology—sol-gel technology. This technology make the inorganic polymer flame retardant exist in viscose fiber organic macromolecules by the interpenetrating network status, and ensure the excellent fiber physical properties.

3 无染纤维 3 Color fiber



无染纤维



无染纤维成品

产品介绍

无染纤维是以优质浆粕和环保型色浆为原料，采用纺前注射技术将色浆与纺丝原液均匀混合，通过湿法纺丝工艺生产的一种天然、环保的纤维素纤维。无染纤维实现了丰富色彩与清洁生产的高度融合，从根本上实现了绿色纤维、绿色生产，引导现代纺织业进入“低染无染”时代。

Introduction of product

The color fiber use the high quality pulp and environmental color paste as raw materials, using the injection technology before spinning ,mixing the color paste and spinning dope evenly , through the wet spinning process, a kind of natural and environmental protection cellulose fiber was made.The color fiber has realized the high integration of rich color and cleaner production, fundamentally realized green fiber, green production, guided the modern textile industry into the era of "no dye" .

4 相变储能纤维素纤维

4 Phase change heat storage viscose fiber



相变纤维

产品介绍

相变储能纤维素纤维采用目前最先进的微胶囊技术开发出的具有蓄热、放热双向温度调节功能的产品。该纤维具有能以潜热的形式吸收储存和释放热量的功能，对外界环境温度的变化在皮肤上作出相应的反应，对温度变化有缓冲作用，大大增加了纺织品的穿着舒适感。

Introduction of product

Phase change energy storage cellulose fiber is a kind of high-tech products with the characteristics of bidirectional temperature regulation function of heat storage and heat release which developed by CHTC Helon (Weifang) new materials Co., Ltd. using the most advanced micro capsule technology. The fiber has the function of absorbing storage heat and releasing heat in the form of latent heat. The temperature changes in the external environment on the skin respond accordingly to temperature changes have a buffering effect, greatly increasing the textile wearing Comfortable sense.

主要业绩

公司拥有国家级技术中心、博士后科研工作站、山东省“泰山学者”岗位、潍坊市“鸢都学者”岗位，具有完善的科研开发体系和完备的中试生产线，先后承担完成国家重点科技攻关项目、国家“863”计划、国家“火炬计划”等国家重点项目 10 余项、省部级技术创新项目 50 余项。

公司承担完成的“年产 45000 吨粘胶短纤维工程系统集成化研究”项目荣获 2006 年度国家科技进步一等奖；“耐高温相变材料微胶囊、高储热量储热调温纤维及其制备技术”荣获 2010 年度国家技术发明二等奖；所开发项目、技术荣获省部级一等奖 4 项、二等奖 5 项。

Main achievements

Boasting a national technology center,a postdoctoral research working station ,and many distinguished professors,HELON has put in place a complete research and development system and pilot production line. The company has completed more than 10 key national sub-projects of the National Key Scientific and Technological Project,the National 863 Plan and the national Torch Plan and over 50 items of the provincial technological innovation projects.

The project of Research on the Engineering System Integration of Realizing Annual Output of 45,000 Tons Viscose Staple Fiber our company undertook won the First National Prize for Progress in Science and Technology in 2006;the project of High Temperature Resistance PCMS,High Heat Storage Thermo-regulated Fiber and the Preparative Technique won the Second Prize of the National Award for Scientific Invention in 2010;other projects and technology we developed have got 4first prizes and 5 second prizes in Shandong.



扫描关注国机集团国际化经营公众号



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