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江阴市华方新技术科研有限公司

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HFJ系列紧密纺装置
HFJ Compact Spinning Assembly

企业介绍

江阴市华方新技术科研有限公司创建于1991年，位于江阴长寿工业园区，是纺织机械工业重点骨干企业，江苏省高新技术企业；承担国家火炬计划和国家重点新产品开发，已通过ISO9001:2015质量管理体系认证，全面推行信息化管理。

华方科技本着“为客户创造价值，给同行树立榜样，建华夏百年企业，创中国世界品牌”的经营理念，精益求精，不懈追求。

华方科技充分利用在纺织机械领域中已取得的技术成果，结合国内外新型纺纱技术，研制开发了细纱机紧密纺改造装置、智能化落纱系统、纱线自动打标机、阿克明斯特地毯织机及新型球经、分经机等系列产品，为推动纺织工业的进步发展做出贡献。

Profile

Established in 1991 and located in Jiangyin Changshou Industrial Park, Jiangyin Huafang New Technology & Scientific Research Co., Ltd. (hereinafter called "H-FANG") is one of leading textile machinery enterprises in China and High-tech enterprise in Jiangsu Province. ISO9001-2015 System certified and fully under informatization management, H-FANG undertakes National Torch Plan and national important new products development.

With the running ideas of Create value for customers, Set examples for competitors, Build a century business in China, Set world brand in China, H-FANG keeps improving and developing.

H-fang made full use of existing achievements in textile machinery field and the latest technologies available in the world, developed various advanced products for textile industry such as Compact conversion kit for ring spinning machines, Auto-doffing conversion for ring spinning machine, Automatic yarn cone marking machine, Axminster carpet loom and Ball warper and Long chain re-beamer. H-fang made contributions to the progress of the textile industry.

董事长致辞

华方新技术科研有限公司秉承精益求精、不懈追求卓越的信心和勇气，不断丰富作为专业机械制造商应具备的阅历和实绩。

凭借严格的管理和多年来所积累的生产经验，华方科技致力于提供从造型、工艺，到质地内外兼修的各类高质量、高性能的机械设备。

华方科技将珍视每一次机会，以期与国内外新、老客户建立稳固持久，互惠互利的业务合作与交流，携手并进，共同发展！



董事长(board chairman) 吴坚中

Remarks from President of H-FANG/China

With relentless pursuit of excellence in the confidence and courage, and as a professional leading machinery manufacturer, H-FANG/China has been gathering experiences and successes in manufacturing different machines for textile industries.

With the strict management and rich experiences for years in this field, H-FANG/China is committed to provide various types of high-quality, high-performance textile machineries and try best to make things perfect from shape, process to quality internal and external.

H-FANG/China treasures each opportunity to establish and maintain a firm and lasting relationship with domestic and foreign new and old customers. We believe mutual beneficial business cooperation and exchanges enable us to make a rapid progress hand in hand.

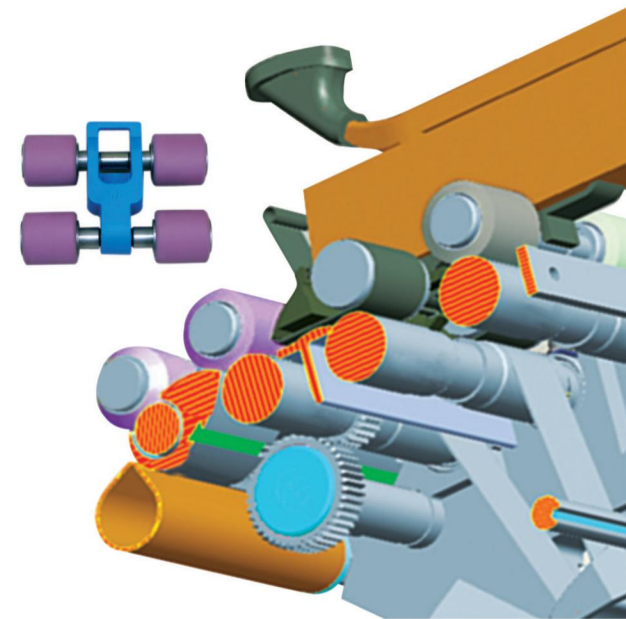


HFJ系列紧密纺装置

本公司采用独到的四罗拉紧密纺及紧密赛络纺装置对细纱机进行改造，结构设计合理，零件制造精良，纺纱效果明显。

HFJ compact spinning assembly

HFJ compact spinning assembly is four-roller devised designed for modification on traditional ring frames. Enjoying perfect structure, good workmanship, its performance is well accepted ever since its launching market.



主要结构特点

- 采用四罗拉与紧密纺皮辊夹持网格圈积极传动。
- 紧密纺负压系统采用总风机、总风道并配有滤网防止二次污染车间。
- 模块化设计，6锭或8锭为一单元。
- 负压分配系统配置合理，各吸口气流一致性好。
- 异形管吸口优化设计，有利于须条集聚。
- 采用变频技术在纺不同支数纱线时对负压进行控制。
- 网格圈张紧装置（专利）张力一致性好，保证网格圈运转平稳。
- 负压控制采用闭环控制方法，保证纺纱过程压力稳定。（选配）
- 自动刮棉装置，提高设备自动化程度。（选配）

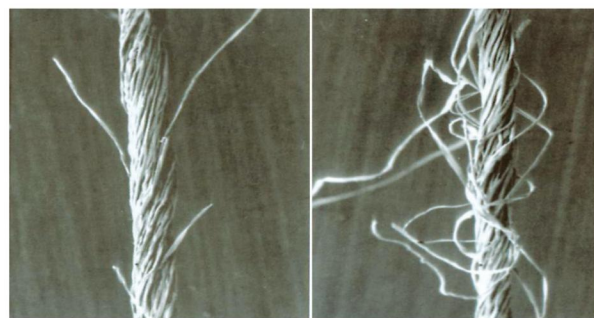
Structre Feaures

- Four-roller system, lattice apron are of positive drive.
- Negative pressure system adopt main blower with general air duct and filter net to avoid dirtying workshop.
- Modular design, 6 spindles or 8 spindles in one unit.
- Well-designed negative pressure distribution ensures consistency of airflow at each suction nozzle.
- The optimization designed suction nozzle on profiled tube, good for fiber compact.
- Inverter control for both energy-saving and pressure adjusting for different yarn count spinning demands.
- Smoothly moving of the yarn is guaranteed by tension device of the lattice apron (patent product of H-FANG).
- Closed-loop control on negative pressure guarantee stable pressure during spinning. (For option)
- Auto-cotton stripping device available for option. (For option)

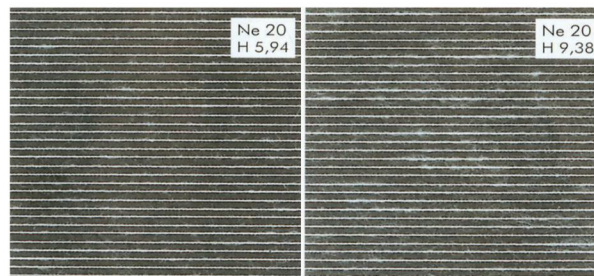


HFJ紧密纺装置对纱线及后道工序的改善

- 纯棉3毫米毛羽减少60%以上。
- 相同纺纱工艺，提高纱线强力5-15%。
- 降低CV%，提高纤维利用率。
- 在同普通环锭纺相同强力的条件下可以提高细纱生产效率。
- 纱线捻度可降低5-10%，同时保持相同的纱线强力。
- 提高条干均匀度。
- 整经断头减少30%。
- 提高纱线耐磨性，减少织造断头。
- 采用紧密赛络纺时烧毛工艺可以省略。
- 减少针织织起毛起球，提高织物上染率。
- 提高生产率，尤其是在喷气织机上生产高密度织物时。
- 色织面料织物纹理更清晰，经编条纹织物尤为如此。
- 弥补面料在后道免烫工艺中损失掉的强力。
- 制成的面料更光滑、柔软。
- 改善工作条件，减少车间飞花。



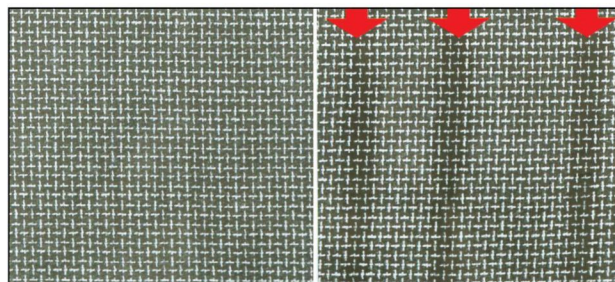
紧密纱线和环锭纱对比图片
Compact Spun yarn vs. ring spun yarn



紧密纱线和环锭纱摇黑板对比图片
Blankboard comparison :compact vs.non compact

Benefits from HFJ compact spinning

- For cotton yarn, over 60% 3mm hairiness can be reduced.
- Under the same process and working condition, the tenacity of compact spun yarn is 5%-15% higher than ring spun yarn.
- Decrease CV%, increase fibre availability.
- Higher productivity when producing same tenacity yarn than conventional spun yarn.
- Yarn twist can be reduced by 5-10% while maintaining same yarn strength.
- Better evenness of diameter and hairiness.
- 30% reduction in yarn breakage in warping process.
- Better abrasion resistance of yarn leading to fewer ends breaks in weaving.
- Singeing can be omitted in case of compact siro-spinning.
- Reduced pilling and better dye uptake in fabric.
- Increase productivity, especially for high density fabrics produced in air jet looms.
- More clear in fabric texture for yarn dyed fabric, especially for warp-striped fabric.
- Maintain tenacity which lost during no-iron finish.
- More smooth and soft in fabric.
- Improve working conditions, reduce flyings in workshop.



紧密织物与环锭布面斑点对比图片
Fabrics made of compact spun vs. made of ring spun yarn

纱线环境要求

为使紧密纺成纱质量达到最佳效果，必须具备如下条件：

- 1、采用紧密纺装置的细纱机建议配备巡回清洁器
- 2、纺纱车间的温、湿度和空气含尘浓度要求：
 - a、温度：全年25-30℃
 - b、相对湿度：50%±5℃（棉）
78%±5℃（毛）
 - c、空气含尘浓 < 3mg/m³

Baaic Requirements for getting good result from compact spinning

- 1、Install traveling cleaner.
- 2、Control temperature, humidity and dust content of the air in the workshop:
 - a、Temperature:25-30℃ constant in all year long
 - b、Relative humidity:50%±5℃ for cotton
75%±5℃ for worsted
 - c、Dust content of the air: < 3mg/m³



长车配套和改造案例介绍

Long frame compact conversion solution

- | | |
|--------------------------|-----------|
| • JWF1580EJM-1824 | 紧密纺、紧密赛络纺 |
| • JWF1576EJM-1200 | 紧密纺、紧密赛络纺 |
| • EJM178-1008 | 紧密纺、紧密赛络纺 |
| • Zinser351-1680 | 紧密纺、紧密赛络纺 |
| • Zinser71、72-1680 | 紧密纺、紧密赛络纺 |
| • Zinser360-1008 | 紧密纺、紧密赛络纺 |
| • LR9/AXL-1824 | 紧密纺、紧密赛络纺 |
| • LR60/AX-1008 | 紧密纺、紧密赛络纺 |
| • RX220、RX240、RX300-1008 | 紧密纺、紧密赛络纺 |
| • RY5-960 | 紧密纺、紧密赛络纺 |
| • G33-1200 | 紧密纺、紧密赛络纺 |
| • G32-1440 | 紧密纺、紧密赛络纺 |
| • K44-1008 | 紧密纺、紧密赛络纺 |

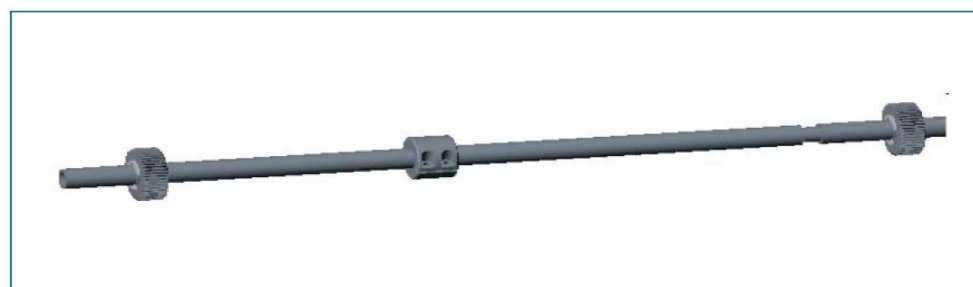
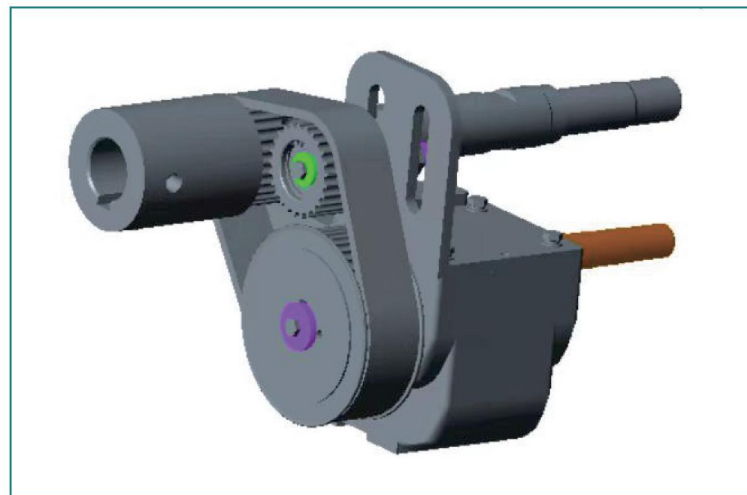
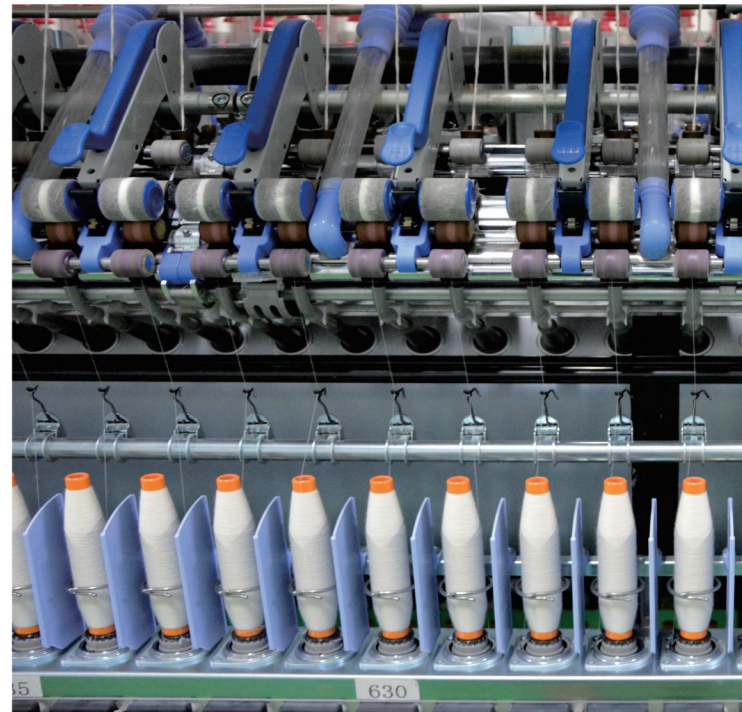


下驱动紧密纺特点

- 优化传动副，提高过桥齿轮寿命；
- 前罗拉不需要更换，中段扭矩降低；
- 集聚罗拉和前罗拉牵伸比可调。

Separate drive compact spinning assembly feature

- Optimize drive parts and enhance the life of idle gear
- Not necessary to change front bottom roller
- The drafting proportion between front bottom roller and small roller is adjustable.



企业荣誉 Honor of H-FANG



▲ 重大技术进步奖
MAJOR TECHNOLOGICAL PROGRESS AWARD



▲ 江苏省紧密纺纱工程技术研究中心
JIANGSU PROVINCE OF COMPACT SPINNING
ENGINEERING TECHNOLOGY RESEARCH CENTER



▲ 高新技术企业认定证书
CERTIFICATE OF HIGH AND
NEW-TECHNOLOGY ENTERPRISE



▲ 国家火炬计划证书
NATIONAL TORCH PROGRAM PROJECT
CERTIFICATE



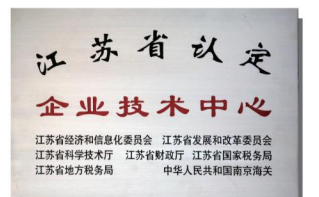
▲ 创新基金立项证书
INNOVATION FUND CERTIFICATE
FOR NEW PROJECT



▲ 高新技术产品认定证书
CERTIFICATE OF HIGH AND
NEW-TECHNOLOGY PRODUCT



▲ 江苏省著名商标
THE FAMOUS BRAND OF JIANGSU
PROVINCE



▲ 江苏省企业技术中心
ENTERPRISE TECHNOLOGY CENTER OF
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主要客户分布

华方主要客户分布

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江苏大生集团
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苏州震纶纺织有限公司
张家港华芳集团
海澜集团有限公司
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