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浙江日发纺织机械股份有限公司
ZHEJIANG RIFA TEXTILE MACHINERY CO.,LTD

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For the purpose of improving product quality, our company reserves the right to change product specifications without notice.



FIBRE PREPARATION Solutions

前准备解决方案

高速假捻变形机

HIGH-SPEED FALSE-TWIST TEXTURING MACHINE



关于日发纺机

浙江日发纺织机械股份有限公司成立于2002年，注册资金6948.7万。公司系国家重点高新技术企业，国家机械工业重点骨干企业，国家863计划CIMS工程示范企业，全国CAD应用工程示范企业，国家火炬计划重点高新技术企业，中国纺织机械协会副会长单位。现旗下控股山东日发纺织机械有限公司、安徽日发纺织机械有限公司、浙江日发纺机技术有限公司。

公司以成为“敏捷化的国际性公司”为愿景，以“为用户提供智能纺织装备系统解决方案，并协助用户逐步实现数字化工厂梦想”为使命，致力于机电行业的“数字科技”，已成为国内外享有高知名度的纺织设备生产企业。二十几年来已成功开发了清梳联、并条机、转杯纺纱机、喷气涡流纺纱机、倍捻机、直捻机、假捻变形机、精密并纱（络筒）机、自动穿经机、喷气织机、喷水织机、剑杆织机、毛巾织机、特种织机、针织圆机、无缝内衣机、袜机、非织造布设备等系列的上百种产品，能够为行业提供纺纱、前准备、织造、非织造四大解决方案，涉及纺织行业的各个领域。产品遍及全国各地，并销往全球30多个国家和地区，在各个行业的市场占有率位居前列。

日发纺机正致力于创造崭新的“数字科技”理念，在未来的整机生产中，建立“人流、物流、信息流”的互动平台，实现科技、环境、制造的和谐统一。铸就“信息化、敏捷化、国际化”的机械制造生产基地。

浙江日发纺机技术有限公司系日发纺机全资子公司，注册成立于2009年。公司主要产品为针织圆机、袜机、无缝内衣机、倍捻机、直捻机、假捻变形机、精密并纱（络筒）机，继承日发纺机二十多年的专业经验，致力于打造世界智能化高端纺织机械设备研发与制造基地。



About Us

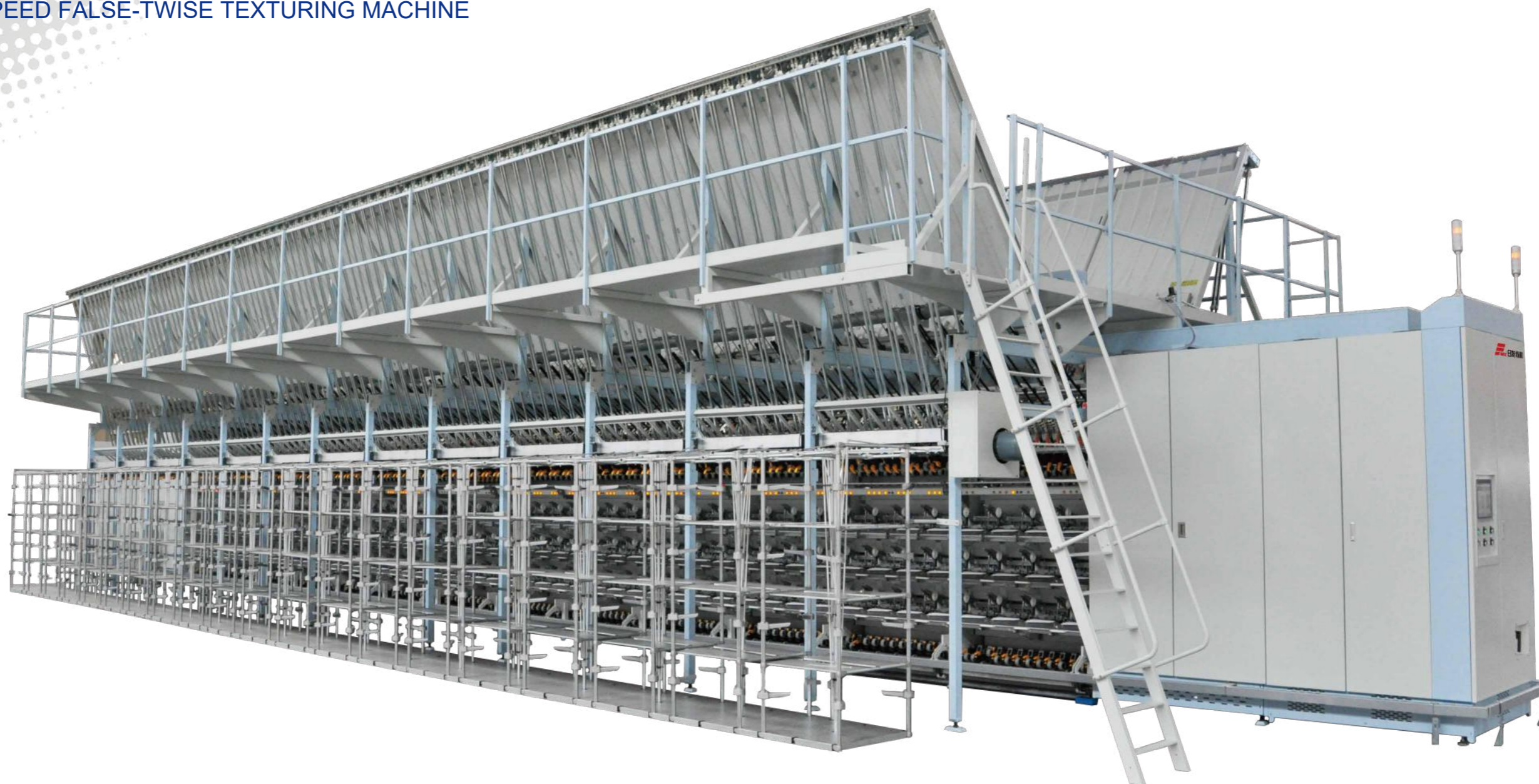
Zhejiang Rifa textile machinery co., ltd. is founded in 2002 with a registered capital of 69.487 million yuan. The company is a China national key high-tech enterprises, a key enterprise of the China national machinery industry, a demonstration enterprise of both China national 863 program CIMS engineering and China national CAD application engineering, a China national torch plan high-tech enterprise, and a vice president unit of China textile machinery association. It now holds three subsidiaries: Shandong Rifa textile machinery co., ltd., Anhui Rifa textile machinery co., ltd. And Zhejiang Rifa textile machinery tech co., ltd.

With the vision of “become an agile and international company” and the mission of “Provide users with intelligent textile equipment system solutions, and help users gradually realize the dream of a digital factory”, Zhejiang Rifa Textile Machinery Co., Ltd. is devoted to the area of “digital technology” in mechanical and electrical industry, and has become a well-known textile equipment manufacturer with excellent reputation at home and abroad. For over twenty years, the company has successfully developed four solutions such as spinning, fibre preparation, weaving and non-woven, including blow-room machine, draw frame, rotor spinning machine, air jet vortex spinning machine, two-for-one twister machine, twister machine for tire cord, false-twist texturing machine, precise winding machine(precise rewinding machine), automatic warp drawing machine, air jet loom, water jet loom, rapier loom, terry towel loom, specific loom, circular knitting machine, seamless knitting machine, hosiery machine and non-woven equipment etc hundreds of machines. These products have been distributed to all areas around China and sold to more than 30 foreign countries and regions with a leading market share in each respective industry.

RIFA is devoting itself to create a whole new theory of digital technology, establishing an interactive platform of “people flow, material flow and information flow”, realizing harmony and unify of science and technology, environment and manufacturing, and aiming to become a manufacturing base of “informatization, agility and internationalization”.

Incorporated in 2009, Zhejiang Rifa Textile Machinery Tech Co., Ltd. is a wholly-owned subsidiary of RIFA. The company's main products include circular knitting machine, hosiery machine, seamless underwear machine, two-for-one twister machine, twister machine for tire cord, false-twist texturing machine and precise doubling machine(precise rewinding machine) . The company has inherited professional experience of over 20 years in RIFA, and is committed to becoming the world R&D and manufacturing base of intelligent high-end textile machinery and equipment.





RFFT10高速假捻变形机用途

RFFT10高速假捻变形机主要是将POY原丝(聚酯预取向丝),通过拉伸和假捻变形加工成具有低弹性能的假捻变形丝(DTY涤纶弹力丝),若在设备上选择增加网络部件还可以进行网络丝的加工。

Use of RFFT10 HIGH-SPEED FALSE-TWIST TEXTURING MACHINE

This machine mainly uses the POY yarn (Pre-oriented Yarn) through stretching and false twisting deformation, processed into low elastic or high elastic false twisting texturing yarn(DTY),the machine can produce intermingle yarn if equipped with a optional intercard nozzle.



热箱

整机共配备两道热箱，第一热箱（节能型变形热箱）和第二热箱（定型热箱）均采用联苯气相加热法，温控屏显精度为±1°C，并且具有超温报警自切原丝功能，进一步确保染色的均匀性，有效确保纱线品质。

Heat box

The machine is equipped with two ways of heat box, the first heat box(Deformation heat box) and the second heat box(Figuration heat box) are using biphenyl gas phase heating, closed structure, it increase the internal heat preservation methods, use PLC control heating and temperature control, temperature control precision is ±1°C, effectively ensure the yarn quality, it is more advantageous to dyeing and keeping more uniformity.



假捻器

采用叠盘式VIII型假捻器，可选择单龙带或双龙带传动方式，安装陶瓷导入盘和刀口导出盘，配置范围1-4-1至1-7-1可选。

False twister

The fold type disc VIII false twist device, can choose single belt or double belt transmission mode, install guide ceramic disc and knife edge disc, optional configuration scope from 1-4-1 to 1-7-1.

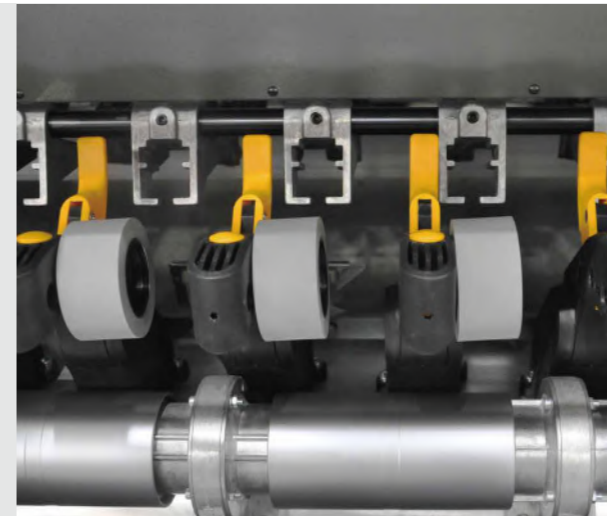


电器控制系统

- 1.采用PLC控制系统，整机通过人机交流实现工艺调整，触摸屏显示及操作使得工艺设定简单化，同时可预设网络接口，根据用户的需要可以进行多机联网管理；同时根据用户需要可以进行手机“APP”软件管理(定制)。
- 2.采用优质的电器元器件，确保设备在使用过程中运行更为稳定、可靠。

Electric control and drive system

1. PLC control system, the machine through man and machine communication, to realizes process adjustment. The touch screen and operation made the process set simply and easily, so it is easy to understand, using the network interface can customized do more machine networking management.
2. Use the high quality of electrical components, to ensure that equipment in use process operation more reliable, more stable.



罗拉

W1/W2/W3罗拉均采用皮辊式结构，塑料皮辊架，压力均匀，其中W2带有分丝辊。

Roller

W1/W2/W3 roller adopts nip roller type structure, plastic roller frame, uniform pressure, the W2 with yarn split roller.

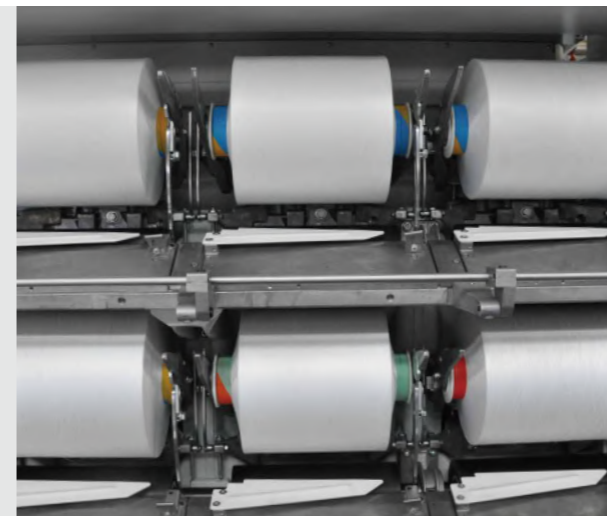


传动系统

全新的结构设计及控制模式，采用单轴单电机直接传动，取消了同步带及涨紧轮，减少传动步骤，提高传动效率，降低故障率。A/B两面可以相对独立运行，工艺可以分别调整设置，在同一设备中同时可以加工两种不同的品种，提高了设备利用率，实现一机多用化。

Drive system

The new structure design and control mode, the single roller, single motor drive directly, canceled synchronous belt, reduce the transmission chain length, improve the transmission efficiency, on both sides of the machine can be relatively independent operation, on a left process can be adjusted respectively set, in the same equipment, processing can be two different original yarn, and improve the equipment utilization, realize the multi-usage.



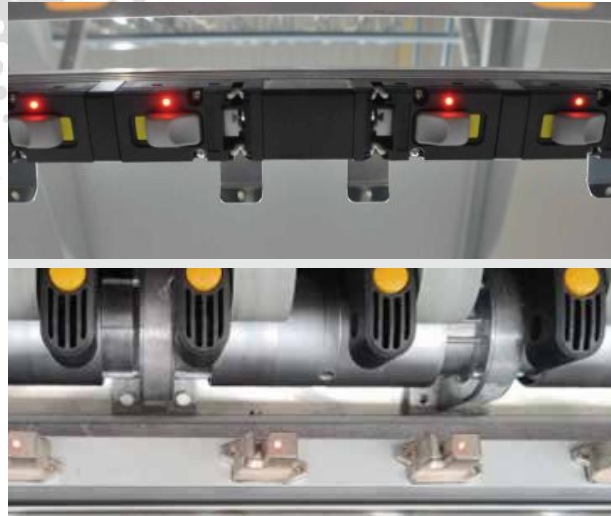
卷取成形

高速卷绕成形系统，带动程修正，成形优良，易于高速退绕，定重定长，最大卷装容量可达6kg。

Take-up forming

High speed winding shaping system, forming good, easy to unwinding, the biggest capacity can be processing to 6kg.

主要部件性能与特点
EQUIPMENT PERFORMANCE AND CHARACTERISTICS OF MAIN COMPONENTS



探丝器、切丝器
通过探丝器检测纱线状态,检测到纱线断头,切丝器直接将喂入原丝切除,减少原丝浪费。

Yarn detector and yarn cutter
Through the inspection of yarn state, if the yarn is breaking or winding ugly, yarn cutter cut the feeding original yarn directly, reduce the waste of yarn.



上油装置
沟槽式上油轮,上油量均匀,AB面独立,采用变频无级调速,客户可任意调整,满足不同工艺生产的需求。

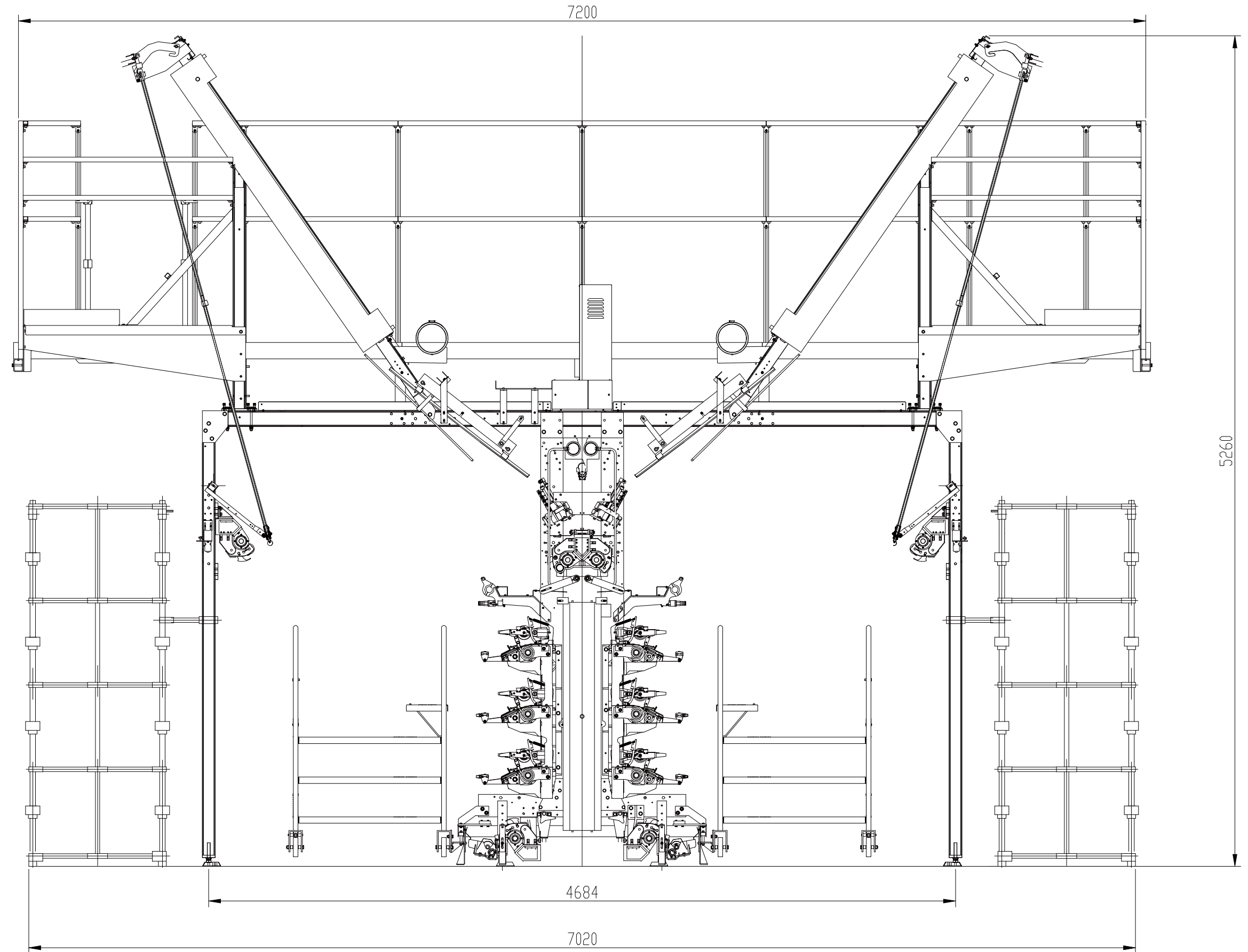
Oiling device
The groove oiling tankers, oil amount even, use inverter for adjusting speed, the customer can arbitrarily regulate and meet the requirements of production.



吸油烟系统
安装上下两排吸油烟管,在生产过程中,能将纱线通过热箱后所产生的油烟有效吸除,确保车间环境及设备的清洁。

Smoke suction
Installed two smoke suction pipeline, the system can clear the yarn fume while processing, ensure the environment more cleaner.

外形尺寸示意图
OVERALL DIMENSION





RFFT10涤纶机安装及使用条件

- 安装设备的地基需采用钢筋混凝土结构浇注，要有足够的地面负载能力，浇注厚度不得小于20cm；
- 地坪水平度，纵向高低不得大于2cm，横向高低不得大于1cm；
- 电源: 380V±10%，三相五线制(3x380V/N/PE)，频率: 50Hz±1Hz，具有良好的接地系统；
- 压缩空气:常压露点≤-25℃，操作压力≥0.6MPa，杂质颗粒<0.2μm，残留油<0.1ppm；
- 使用环境:温度25℃±2℃，相对湿度65%±5%。

Equipment installation conditions

- The foundations of the installation of the equipment shall be reinforced concrete structure pouring, and have enough load capacity, pouring the ckness is not less than 20cm.
- Levelness of the floor and vertical height should not be more than 2cm, horizontal discretion should not be more than 1cm.
- Power: 380V±10%, three - phase - five wire(3x380V/N/P), frequency: 50Hz±1Hz, has the good grounding system.
- Compressed air: dewpoint≤-25℃, pressure≥0.6MPa, impurities<0.2μm, residual oil<0.1ppm.
- Using the environment: temperature 25℃±2℃, relative humidity of 65%±5%.

技术规格 TECHNICAL SPECIFICATIONS

主要技术参数 Machine Parameters

最高机械速度 Highest Mechanical Speed	1000m/min
适纺原料及纤度 Raw Material and Fiber Number	聚酯55-222dtex (50-200Denier) polyester 55-222dtex (50-200Denier)
节距 Section Size	1440mm
假捻方式 False twist way	叠盘式VIII型假捻器摩擦假捻 Folding disc type false twister, friction false twisting
假捻装置最高转速 The highest speed of false twist device	18000r/min
假捻方向 False twist direction	S,Z可调 S,Z adjustable
第一热箱 (变形) The first heat box (distortion)	联苯气相加热 / 2000mm biphenyl gas phase heating / 2000mm
第二热箱 (定型) The second heat box (figuration)	联苯气相加热 / 2000mm biphenyl gas phase heating / 2000mm
变形热箱温度范围 Deformation heat box temperature range	160-250℃
定型热箱温度范围 Figuration heat box temperature range	160-250℃ (低温联苯为 100-160℃) (low temperature biphenyl as 100-160℃)
冷却方式及长度 Cooling mode and length	冷却板自然冷却 / 1100mm cooling rail to cool naturally / 1100mm
摩擦辊直径 Friction drum diameter	φ100mm
罗拉直径 Roller diameter	φ75mm
上油罗拉直径 Oiling roller diameter	φ75mm
原丝最大尺寸 Largest original yarn size	φ435×250mm
最大卷装尺寸 Maximum take-up size	φ250×250mm
卷装标准重量 Standard take-up capacity weight	5KG
卷取纸管规格 Take-up paper pipe specifications	φ69×57×290mm

主要技术参数 Machine Parameters

锭数 Spindle	240 锭Spindles	288 锭Spindles	312 锭Spindles	336 锭Spindles	360 锭Spindles
节数 Section	10	12	13	14	15
锭距 Spindle pitch	110mm				
传动 Drive	93.5	110.5	122.3	127	143.1
上热箱 Up heat box	68	81.6	88.4	95.2	102
下热箱 Below heat box	24	28.8	31.2	33.6	36
辅助功率 Assist power	≈6	≈6	≈6	≈6	≈6
总功率 Total power	191.5	226.9	247.9	261.8	287.1
外形尺寸 (配固定原丝架) Dimension (Stationary creel)	19.12*7.02*5.26m	22*7.02*5.26m	23.44*7.02*5.26m	24.88*7.02*5.26m	26.32*7.02*5.26m

安装地脚图 Foundation bolt drawing

