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

Add: RIFA Digital Technology Zone, Xinchang Hi-tech Industrial Park, Zhejiang,China(312500)  
地址: 浙江省新昌县高新技术产业园区日发数字科技园

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**WEAVING Solutions**  
织造解决方案

针织圆机系列  
CIRCULAR KNITTING MACHINE SERIES



## 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”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.

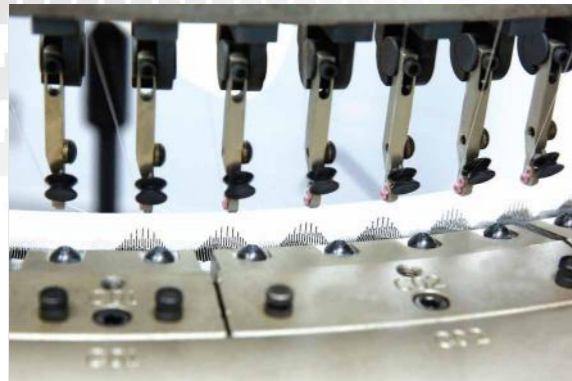
RIFA is devoting itself to create a whole new theory of digital technology, establishing an interactive platform of “people flow, material flow and information flow”, realizing harmony and unify of science and technology, environment and manufacturing, and aiming to become a manufacturing base of “informatization,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



### 针织圆机系列

### CIRCULAR KNITTING MACHINE SERIES



#### 高品质布面

独特设计的喂纱嘴结构，可减少纱线磨损、破坏，不易断纱、不易起球，特别适用添加氨纶，使织物更平整。

#### High Quality Fabric

Patented yarn feeder structure design, which can reduce yarn wearing and damages, reduce breaks and pilling, and suitable for adding spandex to make the fabric smoother.



#### 高效率

特殊的三角曲线设计和钢丝跑道结构，减少了织针运动阻力，延长织针使用寿命，为客户带来高转速、高产量、低能耗的设备。为客户提供纹路清晰、弹性好的织物。

#### High Efficiency

The special cam design and wire bearing structure can reduce needle movement resistance, extend the service life of needle, serve as an equipment with high speed, high production capacity and low energy consumption for customers, and provide customers with high quality and good elasticity.



RF系列针织圆机是日发纺机引进国际先进设计理念，自主研发设计而成的，立足客户需求在技术、结构、外观等方面进行了创新改良优化升级，产品的最大优势是“高速、高产、低耗、低噪、智能网络化”。

RF series of circular knitting machine is developed and designed independently by RIFA by introducing international advanced design concepts, with innovation, improvement and upgrading made according to customers' demand in technology, structure, appearance and other aspects. The products are featured at high speed, high capacity, low consumption, low noise and intelligent network.



#### 智能网络化

通过日发纺机云端实时监测采集数据，远程控制，全面提升终端客户的信息化和品质化管理水平。

#### Intelligent Network

Through RIFA online cloud real-time monitoring and data collection and remote terminal control, the overall level of enterprise informatization and comprehensive quality management level are improved significantly.



#### 适应性广

设备对纱线的适应性较广，适用于棉纱、混纺、涤纶、锦纶、腈纶等各种编织原料。

#### Wide Adaptability

The equipment has wide adaptability for yarns, which is suitable for cotton yarn, blending, polyester, polyamide fibers, acrylic fibers and other weaving materials.

单面机系列  
SINGLE KNITTING MACHINE SERIES



机架部分结合人体工学和针织机原理设计，外形美观，牢固可靠。核心部件选用进口优质材料，来提高整机稳定性和使用寿命。

The frame part of knitting machine combines the design principle of ergonomics and knitting machine, making it beautiful in appearance, solid and reliable. The core components are made of high quality imported materials, aiming to improve machine stability and service life.

高速单面机  
High Speed Single Knitting Machine

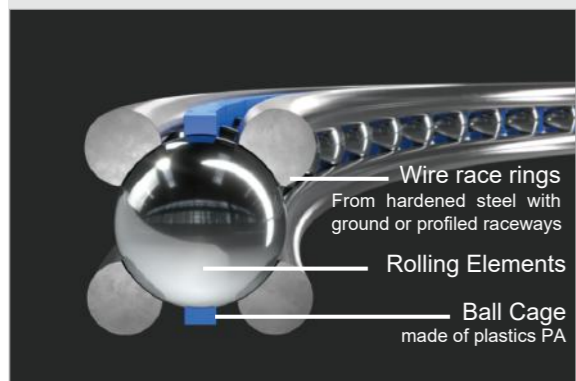
三线卫衣机  
Three-thread Fleece Knitting Machine

单面毛巾机  
Single Terry Knitting Machine

单面开幅机  
Single Open-width Knitting Machine

单面电脑提花机  
Single Electronic Jacquard Knitting Machine

单面调线机  
Single Knitting Machine with Auto-Stripper

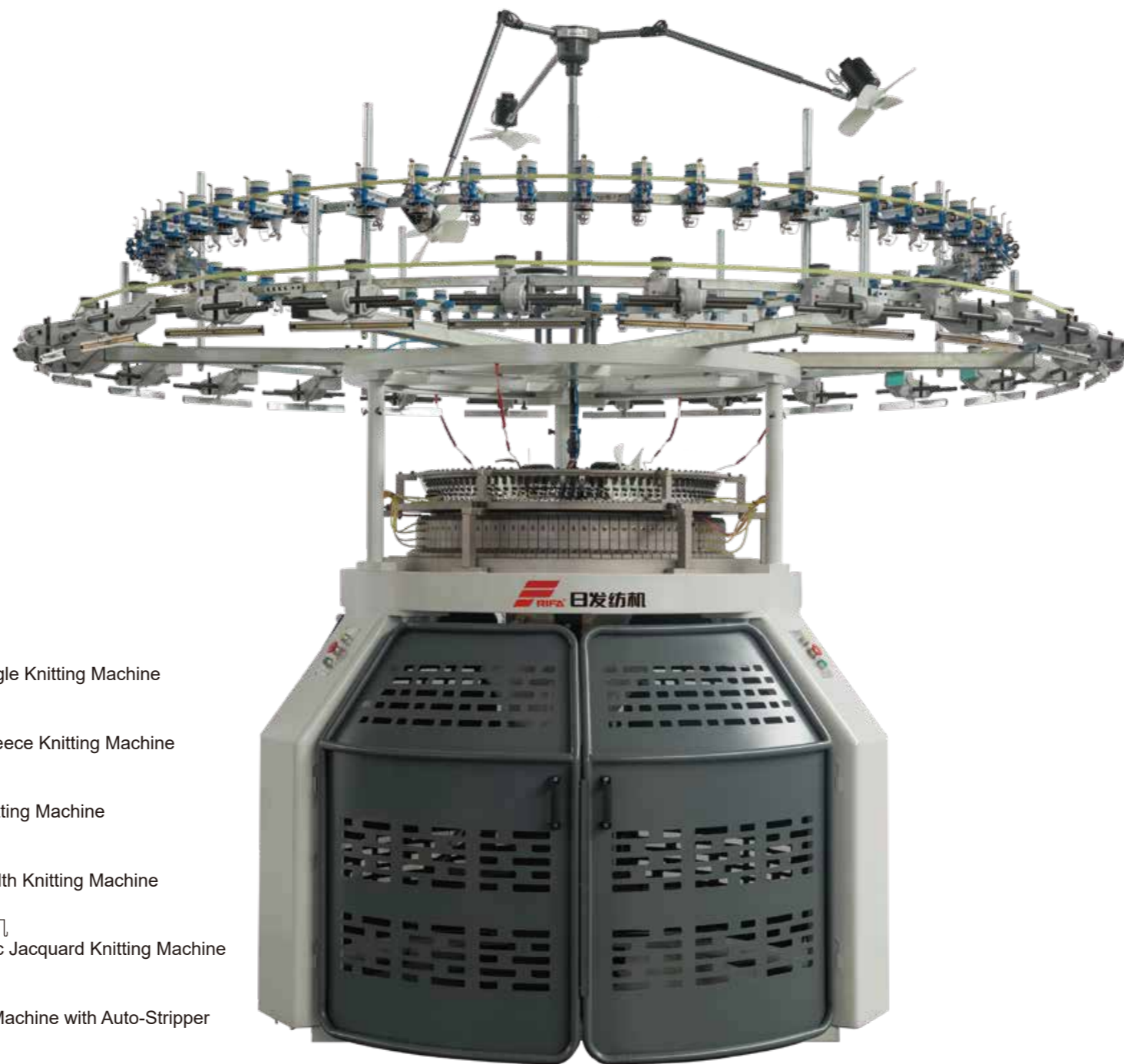


独特的传动系统，机器运转时更加稳定。大盘齿轮采用全浸油式设计理念并使用优质润滑油，运转噪音小、传动齿轮经久耐用。

Special drive system allows the operation of machine to be more stable. Top gear wheel adopt immersion oil type design and use high quality lube, featured at low noise during operation and durable and long service life of gears.

RFSK高速单面机系列采用了四针道设计，并配置了新型喂纱嘴，改善送纱角度和张力，确保织物质量。此机可以织平针组织布，通过变换三角还可编织花色组织等。织物平整、不起毛、无瑕疵、纹路清晰，布面品质高。机器转速高，较普通单面机大幅提升，织物的产量显著提高，提升了客户的经济效益。

RFSK high speed single knitting machine series adopt four needle track design and are configured with new-type feeder, which improves yarn feeding angle and tension to ensure fabric quality. This model can knit plain stitch fabrics and other colored fabrics accordingly by change of cams. The fabric knitted by the machines is clean and flat, without fuzzing, with clear line structure and high quality finishing. Compared with equipment of other brands available in the market, RF circular knitting machine definitely has the advantages of high speed, significant increase of fabric production and great economic benefits to all our clients.



互换性强，只需更换心脏部件，即可将单面机转换成毛巾机或卫衣机。

Strong interchangeability, which only needs to replace knitting element parts to convert a single knitting machine.



所有三角均使用进口合金模具钢，经CNC加工中心雕刻研磨处理，针轨光滑，机器高速运转时，织针顺畅耐用。

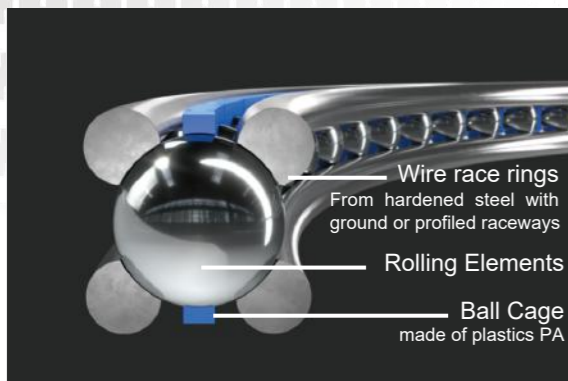
All cams are made of imported alloy die steel after processing and grinding with CNC machining center, needle track is smooth, and machine needles are smooth durable during high-speed operation.



新设计的中央升降系统，结构紧凑，升降平稳，调整织物克重精确简单。更换不同功能的三角，满足不同单面组织结构的生产。

The newly-designed central lifting system, which is featured at compact structure and stable lifting, achieves simple and precise adjustment of fabric weight. Different functions of the cams can be switched to meet the production requirements of different single knitting fabric structures.

双面机系列  
DOUBLE KNITTING MACHINE SERIES



Wire race rings  
From hardened steel with ground or profiled raceways  
Rolling Elements  
Ball Cage  
made of plastics PA

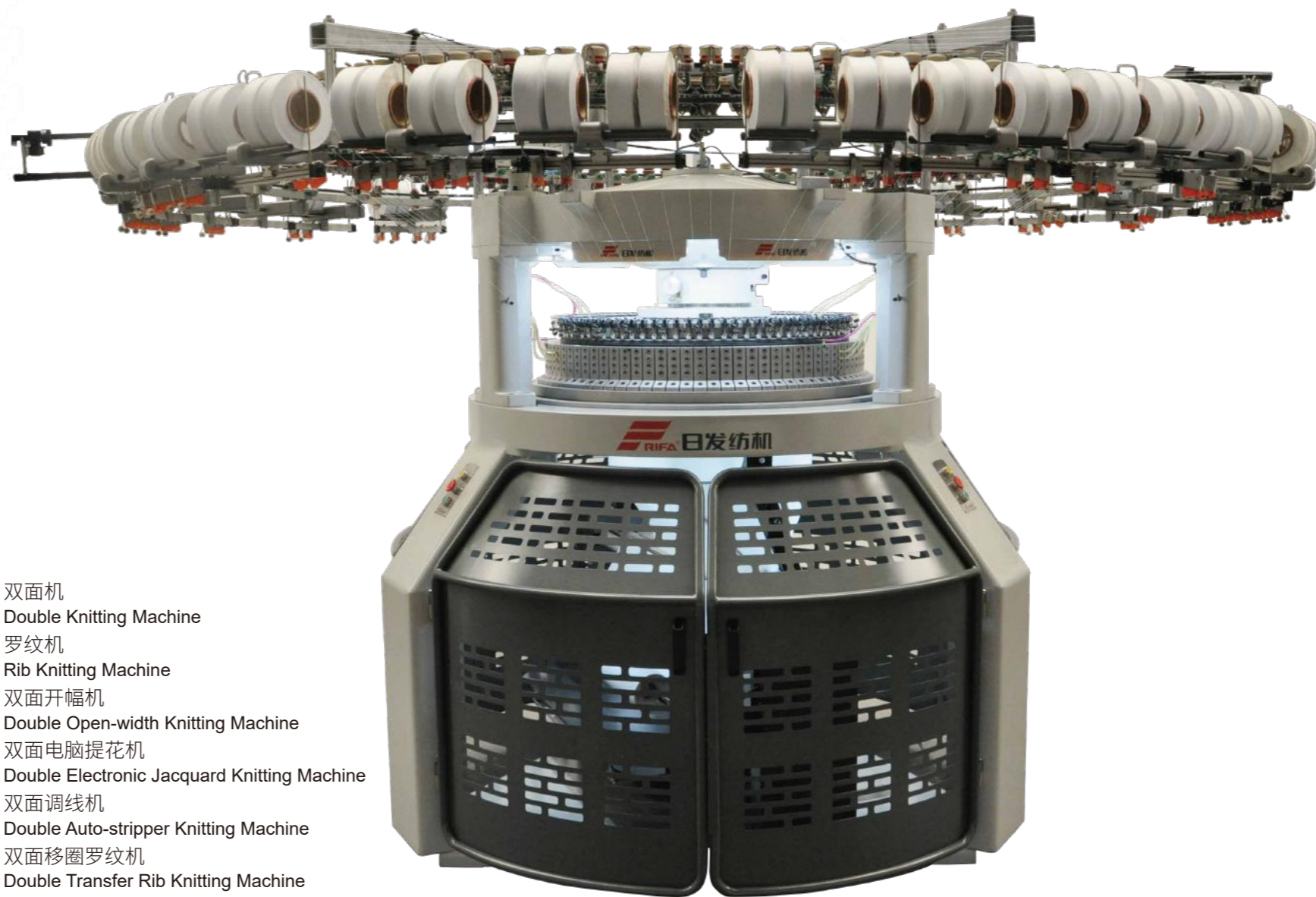
上下齿轮均采用浸油式设计，减少齿轮的磨损及噪音，提高了齿轮的精度及寿命。

The upper and lower gears adopt immersion oil type design, which reduces wearing and noise, and improves the accuracy and lifetime of gears.



采用新式的机架设计，中仁及套筒同步位移，使得调整针距及上下间隙更加准确、简单。

Adopt new type design, with synchronous displacement of upper bed and sleeve, allowing the adjustment of stitch length and vertical gap to be more accurate and simple.



- 双面机  
Double Knitting Machine
- 罗纹机  
Rib Knitting Machine
- 双面开幅机  
Double Open-width Knitting Machine
- 双面电脑提花机  
Double Electronic Jacquard Knitting Machine
- 双面调线机  
Double Auto-stripper Knitting Machine
- 双面移圈罗纹机  
Double Transfer Rib Knitting Machine
- 高速双面机  
High Speed Double Knitting Machine

RFDK双面机系列采用了4+2针道、每英寸2.8路和3.2路喂纱设计。引入新元素对机器外观进行创新改良设计，外形独特，结构稳固，以确保上下齿轮运行平稳。此机通过变换三角排列可编织罗纹、棉毛、小提花、复合组织布等各种织物。本机性能优越、产量高，对重要的零部件做了特殊设计，使机器运行的精度更高，织物的横条、暗影等问题显著减少，提高织物的品质和客户的经济效益。

RFDK double knitting machine series adopt the configuration of 2 tracks on dial and 4 tracks on cylinder with the setting of 2.8 and 3.2 yarn feeders/inch. The machine series introduce new elements to make innovative improvements to machine appearance, achieving unique outlook and solid structure to ensure smooth and reliable operation of upper and lower gears. This model can knit rib, interlock, jacquard weave and various other fabrics by change of cam arrangements. Most of the machine parts and structures are built in-house with high precision and quality in-mind, with special design conducted for important components to achieve high performance and production, therefore to avoid the common problems such as fabric strips, shadow or fabric marks. This machine series can provide wonderful product quality and bring economic benefits to customers.



一机多功能，配置上二下四的三角，只需要更换不同的三角排序，即可变换不同的双面组织，满足不同的市场需求。

Serving as a multifunctional machine, configured with two tracks on dial and four tracks on cylinder, just by changing different cams to convert it into a different double fabric, aiming to meet different market needs.

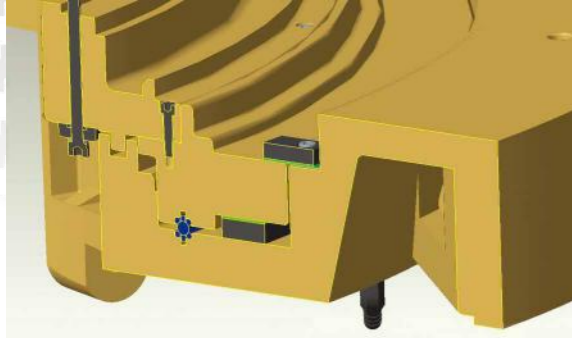


大鼎采用双轴式传动，同步性能好，运行稳定，使用寿命更长。

The upper bed uses two-axis drive, featured at good synchronization performance, stable operation, and longer service life.

单面开幅机

SINGLE OPEN-WIDTH KNITTING MACHINE



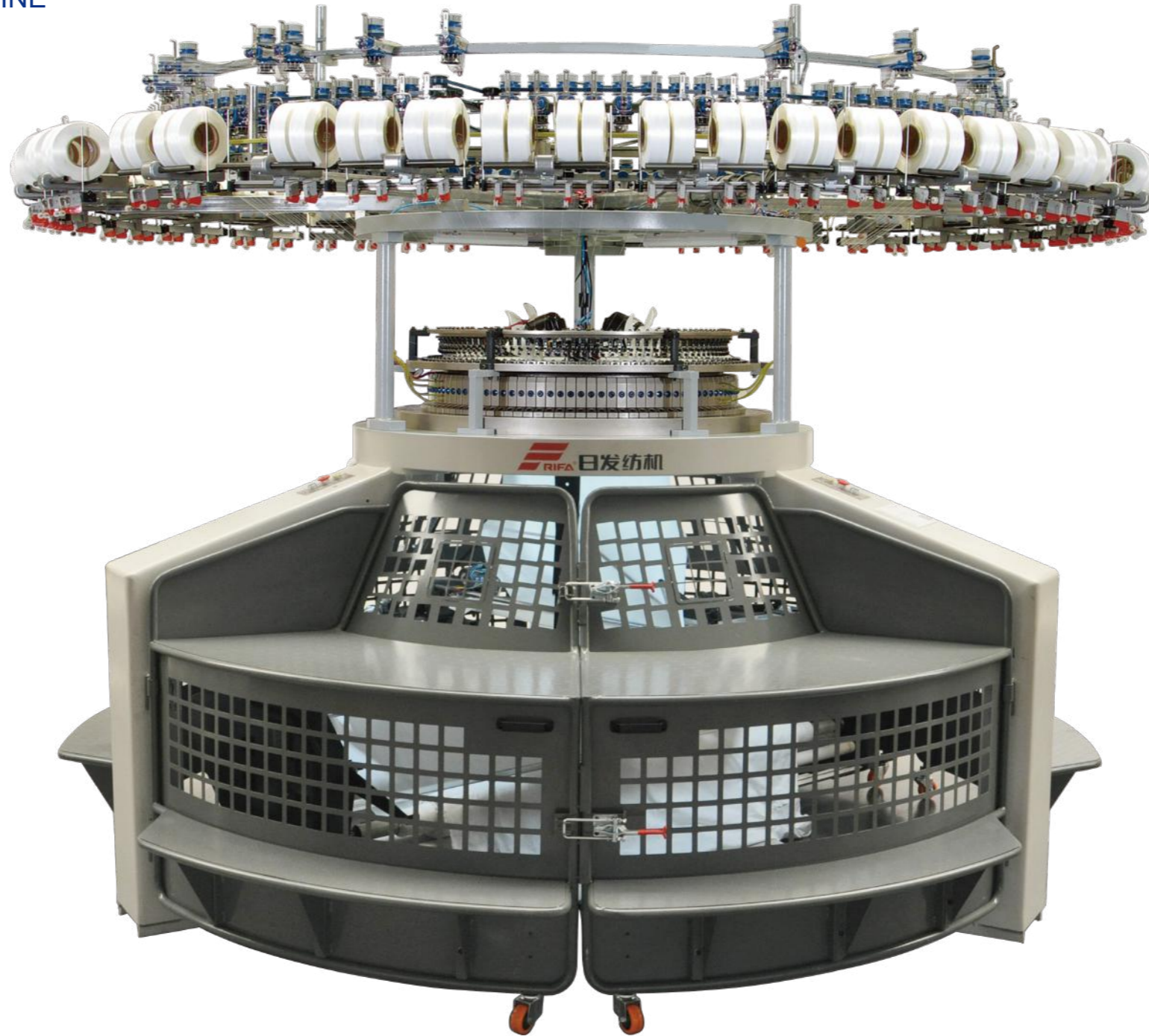
可采用钢丝跑道结构，降低运转负载，耐磨损，延长设备使用寿命；大盘齿轮采用小模数，适用于细针距，零件精度高，运行平稳，噪音低。

Steel wire-bearing is available as an option, which greatly reduces the operating load and the wear resistance, and extends the service life of the equipment. A small module is used for Top gear wheel, which is suitable for fine needle spacing, with high precision of the parts, stable operation and low noise.



采用独特的三角设计，减少了阻力，更适合细针距布面的要求，织物纹路清晰、弹性好。

Adopt unique cam design, which reduces resistance and is suitable for fine needle spacing, make the yarn with high quality and good elasticity.



结构紧凑的中央升降系统，调整织物克重精确简单，满足不同单面组织布面要求。

Central lifting system with compact structure, making adjustment of fabric weight simple and precise, so as to meet the requirements of different single knitting fabric structures.



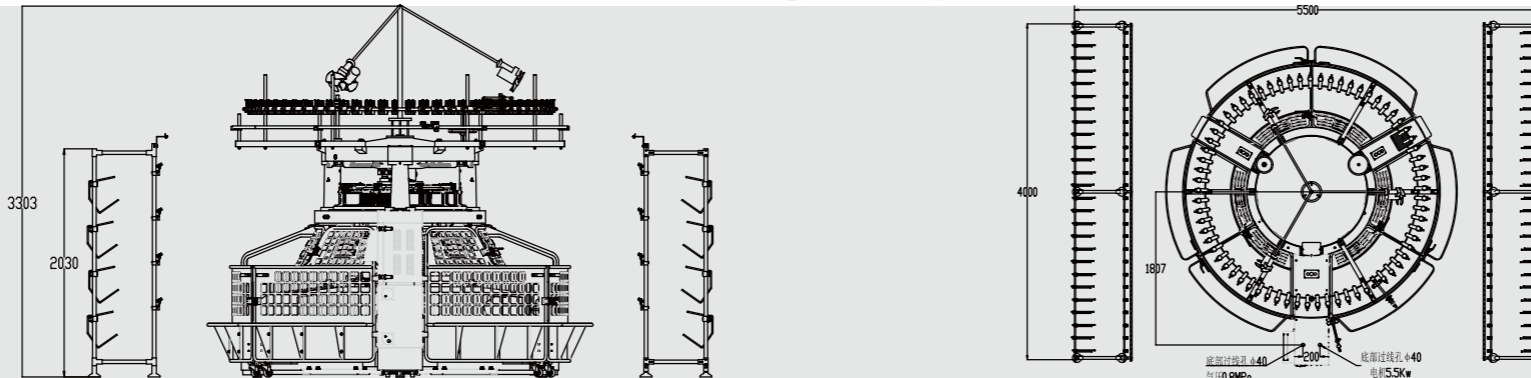
独特的喂纱嘴设计大大降低了纱线的磨损，使布面更整洁、不易起球，保证了织物品质。同时减轻针舌磨损，延长织针的使用寿命。

The unique design of yarn feeders has greatly reduced the wearing and tearing during yarn feeding into machine, allowing the fabric structure and loops to be neater and constant, making it no easy to have pilling, and ensuring a better fabric quality. Meanwhile, it also reduces the wearing and tearing of needles, and extends the service life of knitting needles.



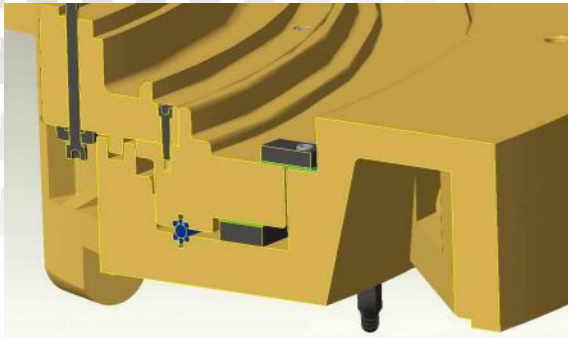
采用电动刀片、油浸式润滑和加装缓冲器的剖布机，运行稳定、可靠、张力平均，配合160种可变速度比，适合多种布匹的拉力要求。

The slitting machine is equipped with electric blades, oil-immersed lubrication and loading buffer, to achieve stable and reliable operation, and even tension. Combined with the use of 160 different kinds of variable speed gear ratios, it can be suitable for a wide range of fabric tension requirements.



双面开幅机

DOUBLE OPEN-WIDTH KNITTING MACHINE



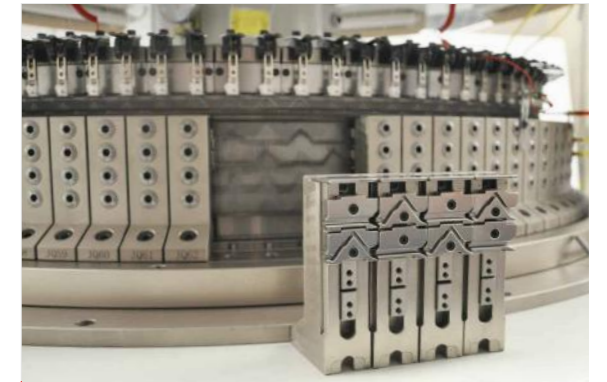
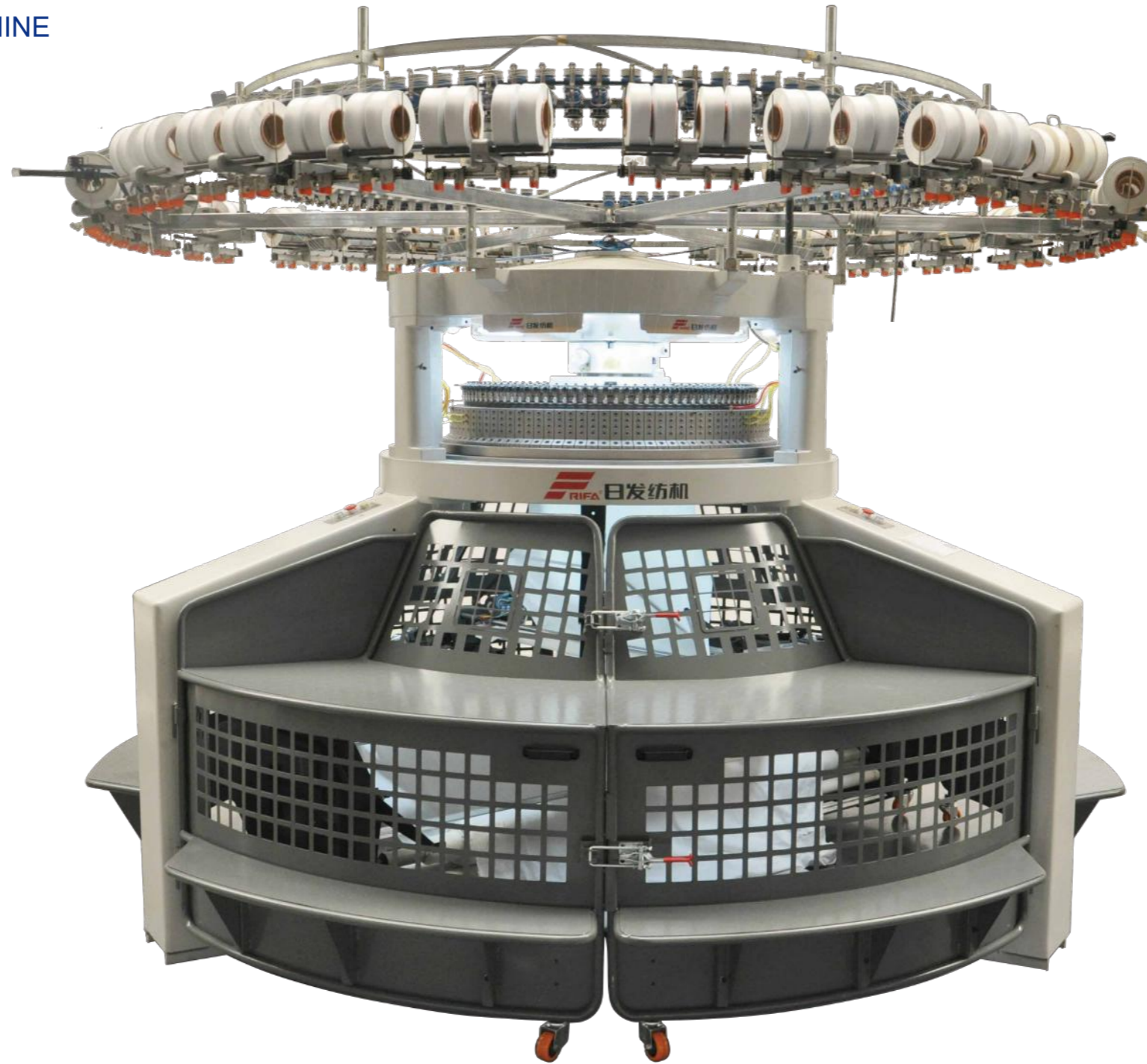
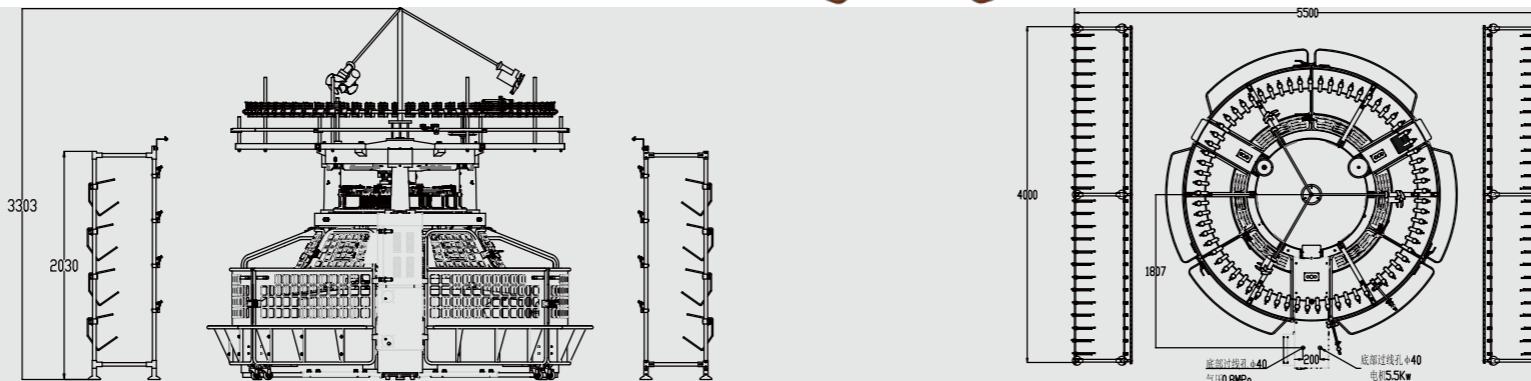
可采用钢丝跑道结构，降低运转负载，耐磨损，延长设备使用寿命；大盘齿轮采用小模数，适用于细针距，零件精度高，运行平稳，噪音低。

Steel wire-bearing is available as an option, which greatly reduces the operating load and the wear resistance, and extends the service life of the equipment. A small module is used for Top gear wheel, which is suitable for fine needle spacing, with high precision of the parts, stable operation and low noise.



双面大鼎结构设计新颖独特，保证了上下对位和运行的精准度，减少织物的横条暗影，提高织物品质。

An innovative and unique design for the upper-gear of the machine top, which ensures the alignment of upper and lower gears and precision of operation, reduce fabric unevenness and hence improve fabric quality.



采用独特的三角设计，减少了阻力，更适合细针距布面的要求，织物纹路清晰、弹性好。

Adopt special cam design, which reduces resistance and is suitable for fine needle spacing, make the yarn with high quality and good elasticity.



采用多路数编织系统设计，为客户提供高产能，高效益，低能耗的设备，提高客户的经济效益。

Adopt design of multi-path weaving system, providing equipment with high productivity, high efficiency and low energy consumption for customers, and improving the economic benefits to customers.



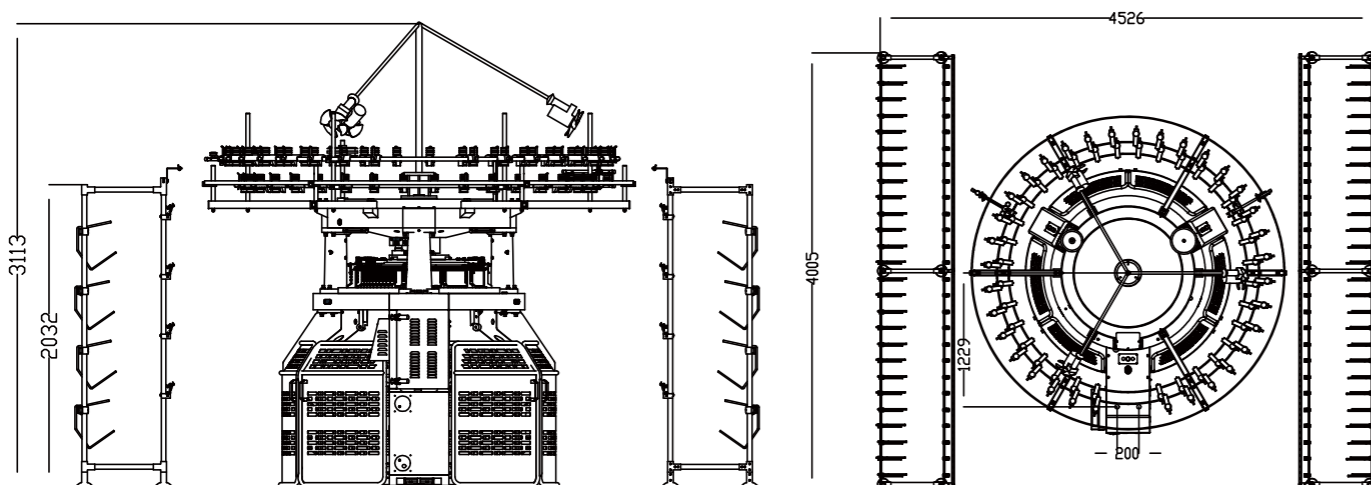
采用电动刀片剖布机，同步收卷布匹，张力均匀，减少布面瑕疵产生，配合160种可变速比，适合多种布匹的拉力要求。

The slitting machine adopts electric blades, and can rewind cloth simultaneously, with even tension to reduce cloth defects. Combine with the use of 160 different kinds of variable speed gear ratios, it can be suitable for a wide range of fabric tension requirements.

### 技术规格和尺寸图

### TECHNICAL SPECIFICATIONS AND DIMENSIONAL DRAWINGS

项目 Item	RFSK单面机 RFSK Single Knitting Machine	RFDK双面机 RFDK Double Knitting Machine
控制系统 Control System	自主研发智能网络化系统 Self-Developed intelligent network system	自主研发智能网络化系统 Self-Developed intelligent network system
筒径 Diameter	14"~44"	14"~44"
针距 Gauge	12G~44G	12G~44G
进纱路数 Number Of Feeding Paths	36F~132F	36F~132F
储纱器 Yarn Storage Device	每路1个 1 PF/each feeder	每路1个 1 PF/each feeder
氨纶送纱器 Spandex Yarn Feeder	每4路1个 1 ER/4 feeders	每4路1个 1 ER/4 feeders
喂纱嘴 (日发新型) Feeding Nozzle (New Rifa Model)	每路1个 1 F/each feeder	每路1个 1 F/each feeder
除尘装置 Cleaning Device	上段风扇、中段风扇 Top blower fans. Middle blower fans.	上段风扇 Top blower fans
落地纱架 Side Creel	两片式落地纱架/三角落地纱架 Two-piece side creel/Triangle side creel	两片式落地纱架/三角落地纱架 Two-piece side creel/Triangle side creel
卷布机 Cloth Rolling Machine	单逆/摆布式卷布机 Single /Swing-type cloth rolling machine	双逆卷布机 Double cloth rolling machine
转速 RPM	18~40PRM (不同生产条件、筒径、组织, 实际转速有所不同) 18-40RPM (Actual RPM may vary depending on different production conditions, diameters and fabrics)	15~30PRM (不同生产条件、筒径、组织, 实际转速有所不同) 15~30RPM (Actual RPM may vary depending on different production conditions, diameters and fabrics)
马达 Motor	3.7kW/5.5kW (根据寸数定) 3.7kW/5.5kW (Depending on the number of inches)	3.7kW/5.5kW (根据寸数定) 3.7kW/5.5kW (Depending on the number of inches)



### 日发针织圆机针数表 (常规)

### RIFA CIRCULAR KNITTING MACHINE NEEDLE TABLE (CONVENTIONAL MODEL)

(N.P.) Gauge Dia of Cylinder	12	14	16	18	20	22	24	26	28	30	32	36	38	40	42	44
14"	528	624	696	792	888	960	1056	1152	1224	1320	1416	1584	1680	1752	1848	1944
15"	576	648	744	840	936	1032	1128	1224	1320	1416	1512	1704	1800	1896	1968	2064
16"	600	696	816	912	1008	1104	1200	1296	1416	1512	1608	1800	1920	2016	2112	2208
17"	648	744	864	960	1080	1176	1272	1392	1488	1608	1704	1920	2040	2136	2232	2352
18"	672	792	912	1008	1128	1248	1368	1464	1584	1704	1800	2040	2160	2256	2376	2496
19"	720	840	960	1080	1200	1320	1440	1560	1680	1800	1920	2160	2280	2376	2496	2616
20"	744	888	1008	1128	1248	1392	1512	1632	1752	1896	2016	2256	2376	2520	2640	2760
21"	792	912	1056	1176	1320	1440	1584	1704	1848	1968	2112	2376	2496	2640	2760	2904
22"	840	960	1104	1248	1392	1512	1656	1800	1944	2064	2208	2496	2616	2760	2904	3048
23"	864	1008	1152	1296	1440	1584	1728	1872	2016	2160	2304	2592	2736	2880	3024	3168
24"	912	1056	1200	1368	1512	1656	1800	1968	2112	2256	2424	2712	2856	3024	3168	3312
25"	936	1104	1248	1416	1560	1728	1896	2040	2208	2352	2520	2832	2976	3144	3288	3456
26"	984	1152	1296	1464	1632	1800	1968	2112	2280	2448	2616	2952	3120	3264	3432	3600
27"	1008	1176	1368	1536	1704	1872	2040	2208	2376	2544	2712	3048	3216	3384	3552	3744
28"	1056	1224	1416	1584	1752	1944	2112	2280	2472	2640	2808	3168	3336	3528	3696	3864
29"	1104	1272	1464	1632	1824	2064	2184	2376	2544	2736	2904	3288	3456	3648	3816	4008
30"	1128	1320	1512	1704	1896	2064	2256	2448	2640	2832	3024	3384	3576	3768	3960	4152
32"	1200	1416	1608	1800	2016	2208	2424	2616	2808	3024	3216	3624	3816	4032	4224	4416
34"	1272	1488	1704	1920	2136	2352	2568	2784	3000	3216	3408	3840	4056	4272	4488	4704
36"	1368	1584	1800	2040	2256	2496	2712	2952	3168	3384	3624	4080	4296	4512	4752	4968
38"	1440	1680	1920	2160	2376	2616	2856	3096	3336	3576	3816	4296	4536	4776	5016	5256
40"	1512	1752	2016	2256	2520	2760	3024	3264	3528	3768	4032	4512	4776	5016	5280	5520
42"	1584	1848	2112	2376	2640	2904	3168	3432	3696	3960	4224	4752	5016	5280	5544	5808
44"	1656	1944	2208	2496	2760	3048	3312	3600	3864	4152	4416	4968	5256	5520	5808	6072