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



NON-WOVEN Solutions

非织造解决方案

非织造生产线

NON-WOVEN LINE



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。

山东日发纺织机械有限公司系日发纺机全资子公司，致力于研发、制造具有国际水准的各类无梭织机。公司产品为系列喷气织机、喷水织机、剑杆织机、毛巾织机、特种织机、针刺、水刺非织造布设备、自动穿经机，三十多年的专业经验使山东日发纺机成长为我国无梭织机的主要研发、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”.

Shandong Rifa Textile Machinery Co., Ltd. is a wholly owned subsidiary of Zhejiang Rifa Textile Machinery Co., Ltd., devoting itself to research and manufacture top grade all kinds of shuttleless looms. air jet loom, water jet loom, rapier loom, terry towel loom, special loom and needle&spunlace non-woven equipment, automatic warp drawing machine. More than 30 year experience has it grown to be the main research and manufacture base of shuttleless weaving machines.



基本工艺流程 Basic Process Flow

水刺 Spun-Lacing	04
针刺 Needle-Punching	06
热风 Hot Air	08

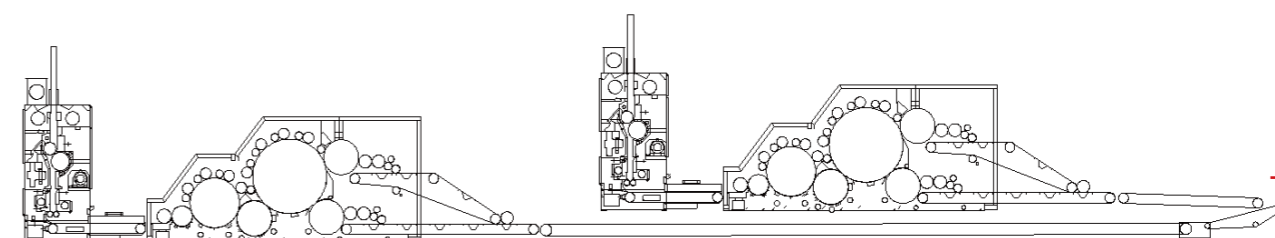
基本设备 Basic Equipment

电子称重开包机 Electronic Weighing Bale Opener	09
松包机 Bale Opener	10
粗开松 Coarse Opener	11
混棉机 Cotton blender machine	12
精开松 Precise Opener	15
储棉箱 Cotton Storage Box	17
喂棉箱 Cotton Feeding Box	18
电子称重器 Electronic Weighing Device	21
梳理机 Carding Machine	22
牵伸机 Dafter	25
铺网机 Lapper	26
水刺机 Spun-Laced Machine	29
针刺机 Needling Machine	30
烘干机 Dryer	34
卷绕机 Winding Machine	35
分切机 Slitting Machine	38

水刺法非织造布生产线

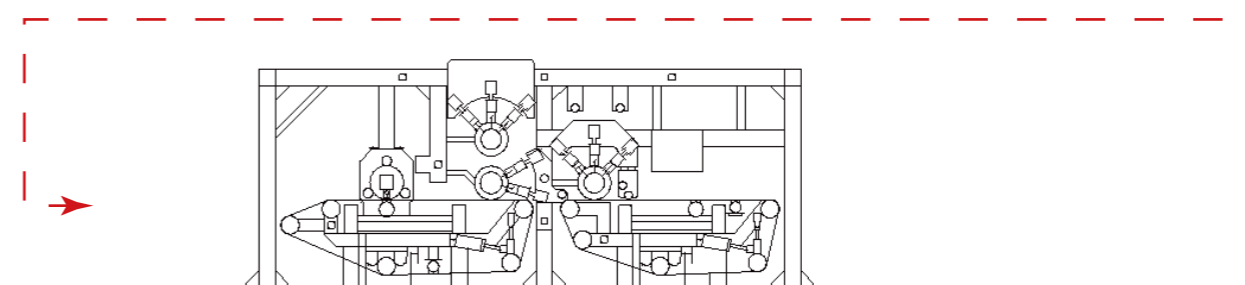
SPUN-LACED NON-WOVEN FABRICS PRODUCTION LINE

直铺生产线 Straight Laying Production Line



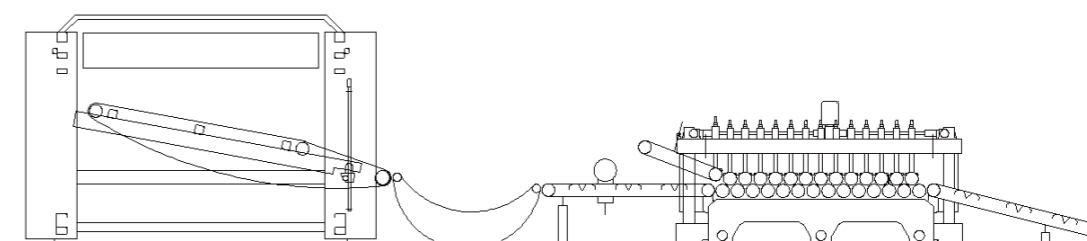
梳理机 Carding machine

梳理机 Carding machine



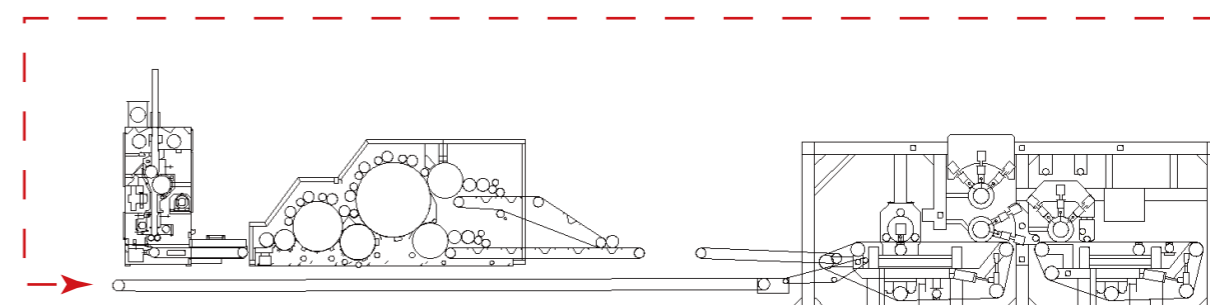
水刺机 Spun-laced machine

半交叉成网生产线 Semi-cross lapping production line



交叉铺网机 Cross lapper

多辊牵伸机 Multi roller dafter



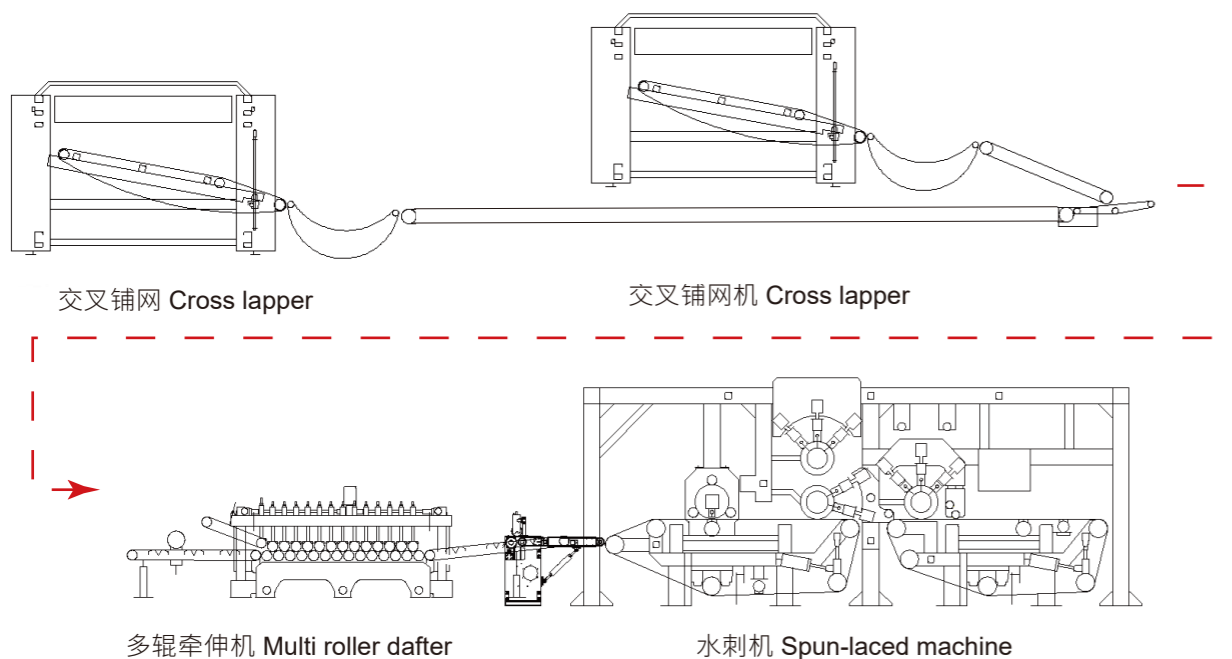
梳理机 Carding machine

水刺机 Spun-laced machine

水刺法非织造布生产线

SPUN-LACED NON-WOVEN FABRICS PRODUCTION LINE

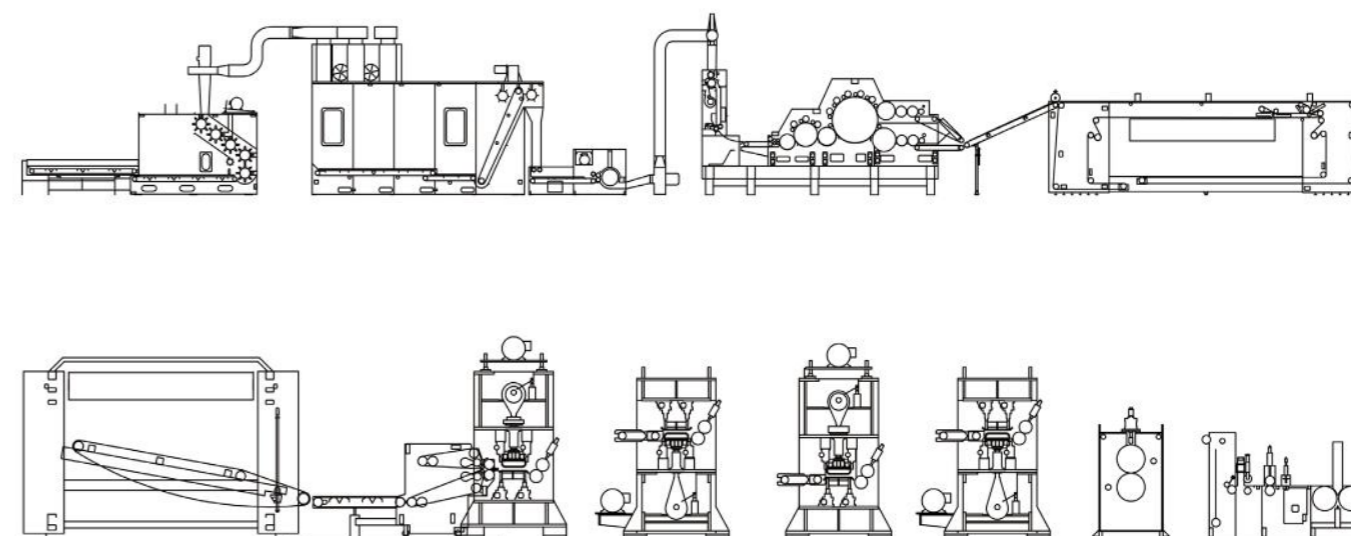
全交叉成网生产线 Full-cross lapping production line



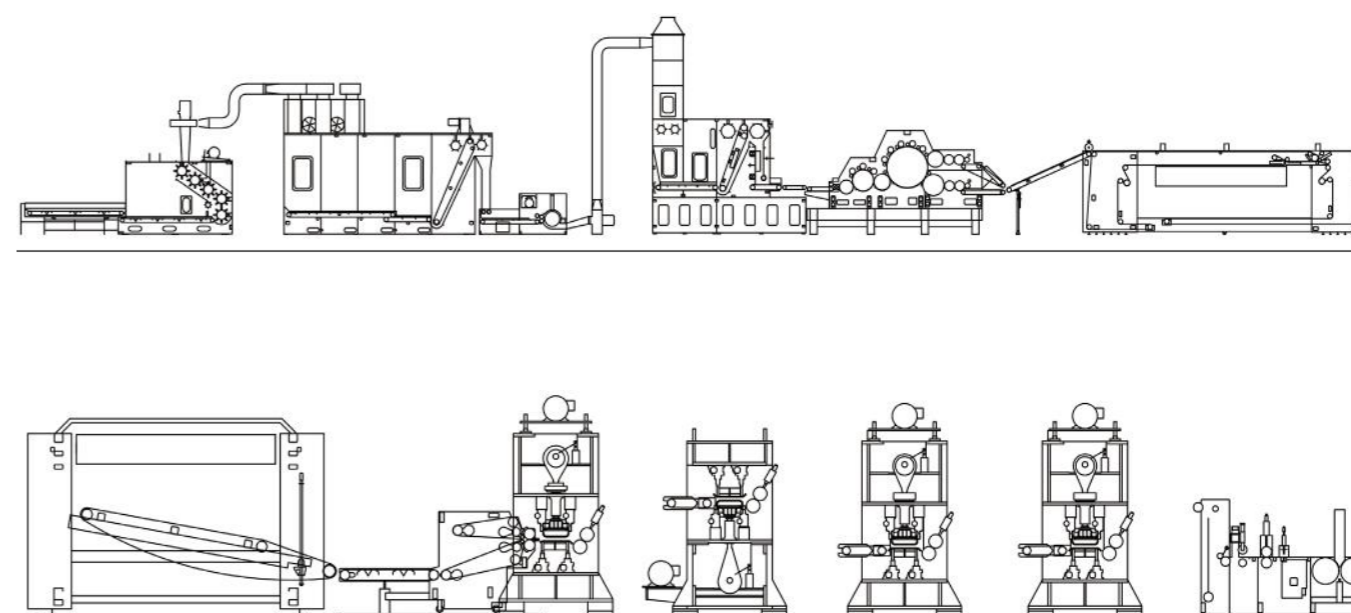
针刺法非织造布生产线

NEEDLE PUNCHED NON-WOVEN FABRICS PRODUCTION LINE

生产线 A Production Line A



生产线 B Production Line B



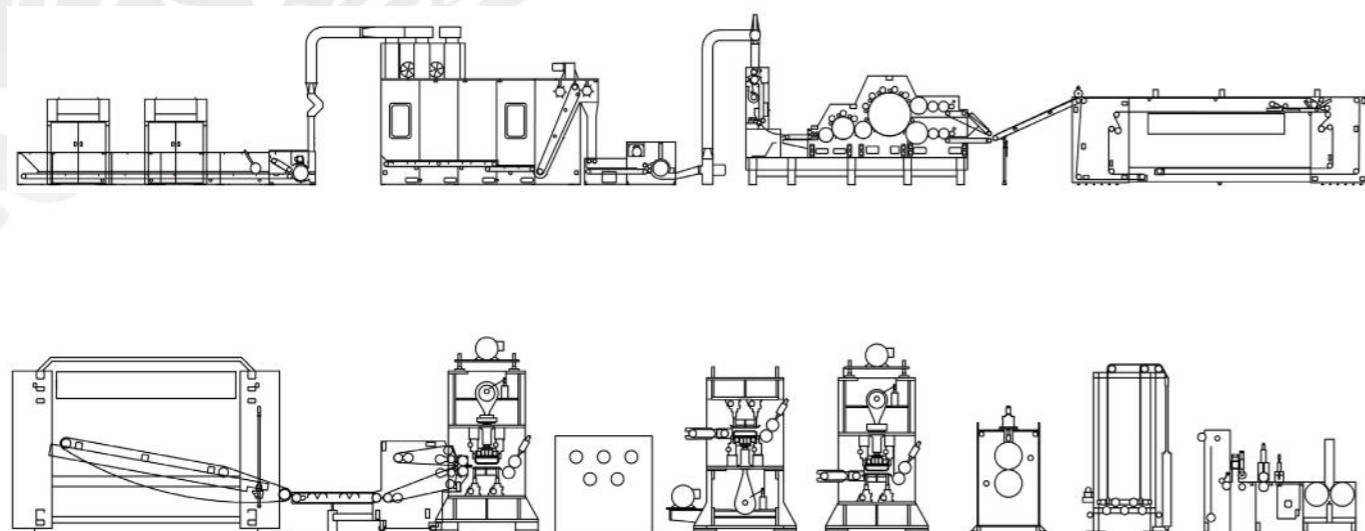
设备主要参数 Main parameters of equipment

	直铺生产线 Straight laying production line	半交叉成网生产线 Semi-cross lapping production line	全交叉成网生产线 Full-cross lapping production line
产品原料 Product raw material	涤纶、粘胶等棉型化纤 Cotton chemical fibers, e.g. polyester, and viscose	涤纶、粘胶等棉型化纤 Cotton chemical fibers, e.g. polyester, and viscose	涤纶、粘胶等棉型化纤 Cotton chemical fibers, e.g. polyester, and viscose
产品方向 Product direction	湿巾、擦布 Wet towel and cloth	湿巾、擦布、面膜、PVC革基布 Wet wipe, cloth, mask, PVC leather base cloth	PVC革基布、PU革基布 PVC and PU leather base cloth
产品克重 Product weight	30-80g/m ²	30-120g/m ²	30-200g/m ²
产品克重偏差 Product weight deviation	CV%<3%	CV%<4%	CV%<5%
产品强力比 Product strength ratio	CD: MD=4:1	CD: MD=2.5:1	CD: MD=1:1
设备幅宽 Equipment width	2500mm-3800mm	2500mm-3800mm	2500mm-3800mm
最高生产速度 Maximum production speed	160m/min	60m/min	60m/min

针刺法非织造布生产线

NEEDLE PUNCHED NON-WOVEN FABRICS PRODUCTION LINE

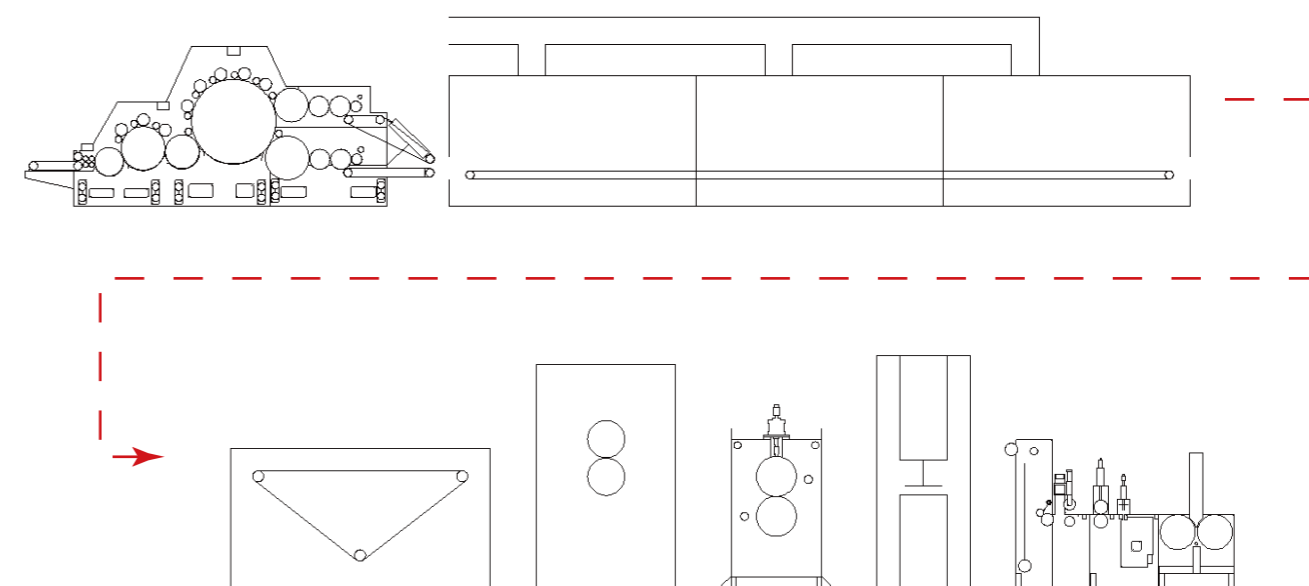
生产线 C Production Line C



热风法非织造布生产线

THROUGH-HOT AIR BONDING NON-WOVEN FABRICS PRODUCTION LINE

生产线 Production Line



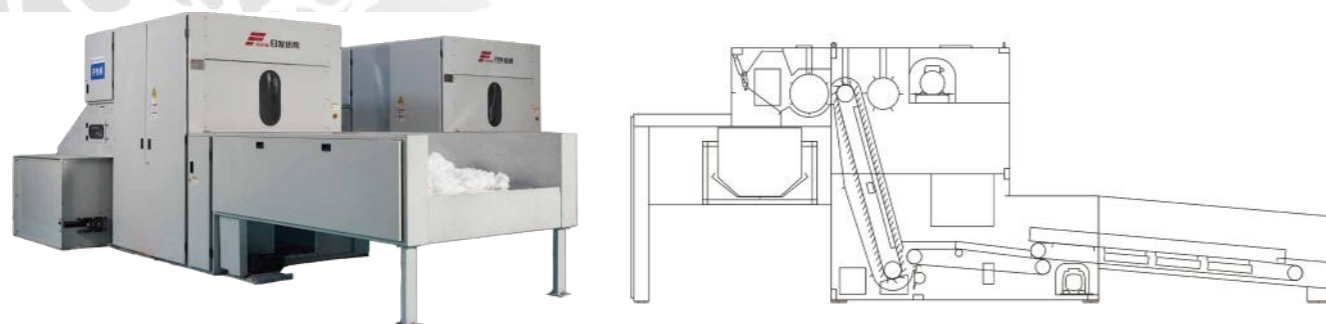
设备主要参数 Main parameters of equipment

	生产线A production line A	生产线B production line B	生产线C production line C
产品原料 Product raw material	预氧丝、芳纶 Pre-oxygen yarn, aramid fibre	涤纶、丙纶、芳纶、锦纶、PPS、PTFE等 Polyester, polypropylene fiber, aramid fiber, nylon, PPS, PTFE, etc	涤纶、丙纶等纤维 Fibers, e.g. polyester, and polypropylene
产品方向 Product direction	预氧丝无纺布,阻燃防火棉,香炉垫,芳纶无纺布 Pre-oxygenated non-woven fabrics, flame retardant fireproof cotton, hearth pad, aramid non-woven fabrics	过滤材料、土工布、汽车内饰 Filter material, geotextile, automotive interiors	土工布(符合CRCC标准) Geotextile (Conform to CRCC Standard)
产品克重 Product weight	60-1500g/m ²	60-1200g/m ²	60-1200g/m ²
产品克重偏差 Product weight deviation	CV% < 4%	CV% < 5%	CV% < 5%
设备幅宽 Equipment width	2000mm-3600mm	2000mm-7200mm	6400mm-7200mm
最高生产速度 Maximum production speed	1-10m/min	2-15m/min	2-15m/min

设备主要参数 Main parameters of equipment

	生产线 production line
产品原料 Product raw material	ES纤维 ES fiber
产品方向 Product direction	薄型产品用于卫生、餐饮等一次性用品;厚型产品用于制作防寒服、保暖、床垫、沙发垫等。高密度的热熔粘合产品,可用于制作过滤材料、隔音材料、减震材料等。 Thin products, used for sanitary, catering and other disposable products; Thick products, used for making cold clothing, warm, mattress, sofa cushion, etc. High-density hot-melt adh filter material sound insulation material shock absorption materials, etc.
产品克重 Product weight	20-200g/m ²
产品克重偏差 Product weight deviation	CV% < 4%
设备幅宽 Equipment width	2500mm-3800mm
最高生产速度 Maximum production speed	≤100m/min

RFKB30 电子称重开包机 Electronic Weighing Bale Opener



本产品适用于各种等级的原棉、棉型化纤和76mm以下的中长化纤的计量喂入。特别适用于纤维混合配比要求精确的非织造布生产线, 每条生产线一般配备2或3台, 与1台粗开松配套使用, 以满足2或3种纤维的混合。其主要技术特征如下:

- 角帘帘、输送帘变频控制
- 喂入量通过光电传感器控制
- 铝合金称斗表面光洁不挂棉
- 称斗开闭由位置气缸控制
- 设备两侧配有急停开关

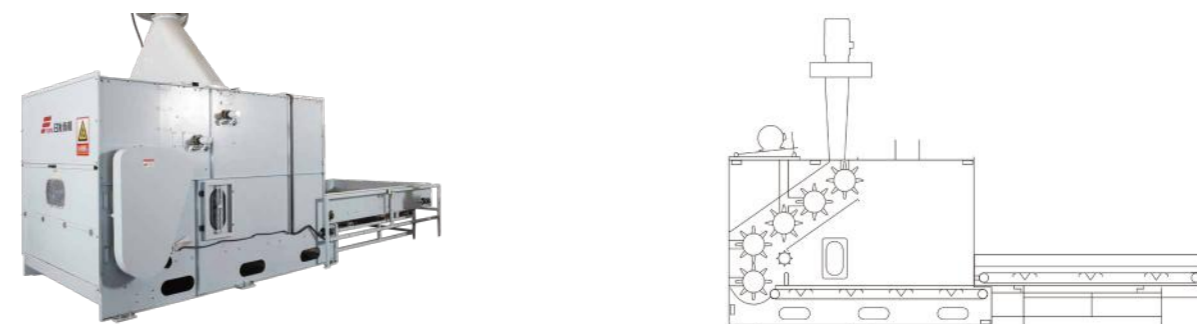
The machine is applicable to metered feeding of various grades of raw cotton, cotton-type chemical fiber and medium and long chemical fibers below 76mm. It is especially applicable to non-woven fabrics production line with accurate fiber mixing ratio requirements. Each production line shall be generally equipped with 2 or 3 sets of machines, used together with 1 set of coarse loosening machine to meet the mixing requirements of 2 or 3 types of fibers. Its main features are as follows:

- Frequency conversion control of comer pin curtain and conveying curtain
- Feeding quantity is controlled by photoelectric sensor
- Smooth surface of aluminum alloy bucket without hanging cotton
- The opening and closing of the weighing bucket is controlled by the position cylinder
- Emergency stop switches are set on both sides of the equipment

设备主要参数 Main parameters of equipment

机型	Model	RFKB30-12	RFKB30-15
输棉帘数量	Number of cotton conveying curtains	2	2
工作幅宽 (mm)	Operating Width (mm)	1200	1500
产量 (kg/h)	Output (kg/h)	400	500
装机功率 (kw)	Installed power (kw)	4.5	6
外形尺寸(长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	6160 x 1770 x 2470	6160 x 2070 x 2470
全机净重 (kg)	Net weight of the whole machine (kg)	3000	3800
称重传感器 Weighing sensor	额定载荷 (kg) Rated load (kg)	50	50
	工作频率 (min-1) Operating frequency (min-1)	2~4times	2~4 times

RFBM10 松包机 Bale Opener



本产品适用于各种等级的原棉、棉型化纤和76mm以下的中长化纤的计量喂入及初步混合。其主要技术特征如下:

- 喂入平帘采用PVC帘
- 纤维通过顶部离心风机, 吸入棉箱
- 五根开松辊, 齿条均布, 将纤维均匀开松
- 称重部件带有显示屏, 精确显示落棉质量, 确保定量配比

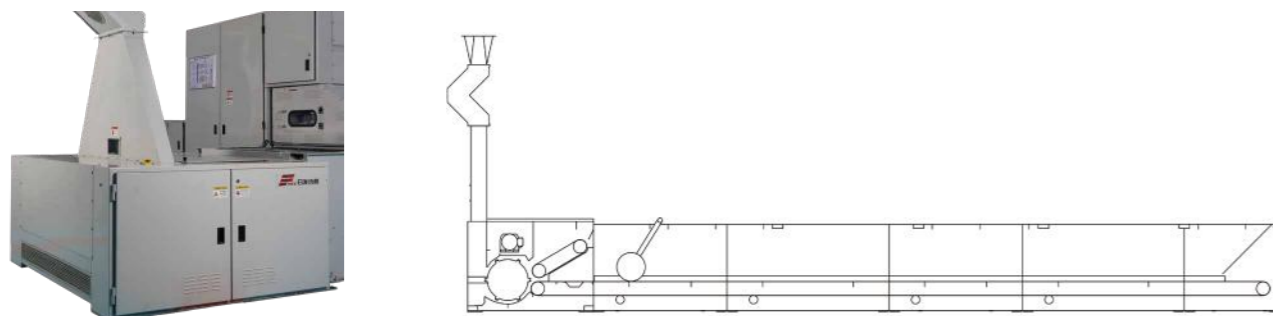
The machine is applicable to metered feeding and preliminary mixing of various grades of raw cotton, cotton-type chemical fiber and medium and long chemical fibers below 76mm. Its main features are as follows:

- The feeding flat curtain adopts PVC curtain
- Fiber is sucked into the cotton box via the top centrifugal fan
- Five opening rollers with evenly distributed racks to loosen the fiber evenly
- The weighing unit is equipped with a display screen, aiming to accurately display the quality of the dropping cotton and ensure the quantitative proportioning ratio

设备主要参数 Main parameters of equipment

机型	Model	RFBM10
输棉帘数量	Number of cotton conveying curtains	2
工作幅宽 (mm)	Operating Width (mm)	2000
产量 (kg/h)	Output (kg/h)	500
装机功率 (kw)	Installed power (kw)	18
外形尺寸(长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	6400 x 2500 x 4000
全机净重 (kg)	Net weight of the whole machine (kg)	4100
称重传感器额定载荷	Rated power of weighing sensor (kg)	200

RFCK30 粗开松机 Coarse Opener



本产品适用于各种等级的原棉、棉型化纤和76mm以下的中长化纤进行初步混合。特别适用于纤维混合配比要求精确的非织造布生产线, 每条生产线一般配备1台, 与2或3台开包机配套使用, 以满足2或3种纤维的混合。其主要技术特征如下:

- 喂入、输送帘变频控制
- 配有钢钉打手, 可将多种原料初步混合铺平
- 防护门装有门限微动开关当仓门打开的时候机器会停止运行
- 开松辊上盖配有电子锁, 在锡林完全停止前无法打开, 保护操作人员安全

The machine is applicable to preliminary mixing of various grades of raw cotton, cotton-type chemical fiber and medium and long chemical fibers below 76mm. It is especially applicable to non-woven fabrics production line with accurate fiber mixing ratio requirements. Each production line shall be generally equipped with 1 set, used together with 2 or 3 sets of coarse loosening machine to meet the mixing requirements of 2 or 3 types of fibers. Its main features are as follows:

- Frequency conversion control of feeding and conveying long curtains
- Equipped with saw-tooth cotton tray for initial blending and paving of multiple raw materials
- The protective door is equipped with a door limit micro-switch. The machine will stop running when the compartment door is opened
- The upper cover of the opening roller is equipped with an electronic lock, which cannot be opened until the cylinder is completely stopped, aiming to protect the operator.

设备主要参数 Main parameters of equipment

机型	Model	RFCK30
开包机工位	Bale opener workstation	2或3
工作幅宽 (mm)	Operating Width (mm)	1600
产量 (kg/h)	Output (kg/h)	1000
装机功率 (kw)	Installed power (kw)	6.6
外形尺寸(长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	11540 x 2180 x 2890
全机净重 (kg)	Net weight of the whole machine (kg)	1600 (2 workstations)

RFLM10 大仓混棉机 Large Bin Cotton Blender Machine



本产品对各种经过初步开松的纤维进行充分的混合及存储, 并对其它设备的回花收集使用。其主要技术特征如下:

- 采用旋转抛棉装置, 将纤维均匀的分布在大仓内
- 光电开关控制料位高度
- PVC输送帘和角钉帘通过光电联动控制供棉, 使混棉更为均匀
- 设备周围设置多处急停开关, 异常状况时, 能够及时停机

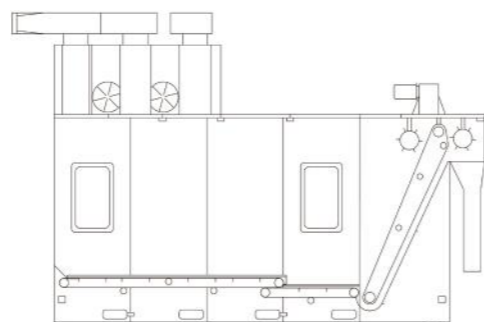
The machine fully mix and store various types of fibers that have been preliminarily loosened, and collect and use the lap waste of other equipment. Its main features are as follows:

- Adopt rotary cotton throwing device for even distribution of fiber in the bin
- Height of material level is controlled by photoelectric switch
- PVC conveying curtain and corner pin curtain control the feeding of cotton via photoelectric linkage, allowing the cotton mixing to be more uniform
- Several emergency stop switches are set around the equipment, aiming to stop the machine in time in case of abnormal conditions

设备主要参数 Main parameters of equipment

机型	Model	RFLM10
气纤分离器安装工位	Gas fiber separator installation workstation	2
储棉空间 (m3)	Cotton storage space (m3)	25、30、40
工作幅宽 (mm)	Operating Width (mm)	2500
产量 (kg/h)	Output (kg/h)	600
装机功率 (kw)	Installed power (kw)	9.5
外形尺寸(长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	7500 x 2800 x 4400
全机净重 (kg)	Net weight of the whole machine (kg)	6900

RFMM10 中仓混棉机 Mid-Bin Cotton Blender Machine



本产品对各种经过初步开松的纤维进行充分的混合及存储,并对其它设备的回花收集使用。其主要技术特征如下:

- 采用旋转抛棉装置,将纤维均匀的分布在大仓内
- 光电开关控制料位高度
- PVC输送帘和角钉帘通过光电联动控制供棉,使混棉更为均匀
- 设备周围设置多处急停开关,异常状况时,能够及时停机

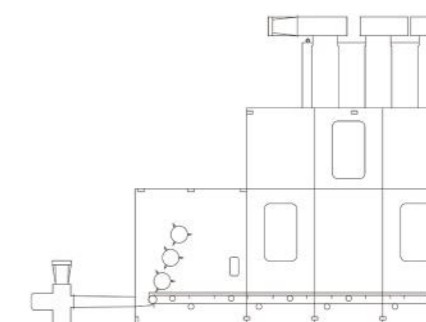
The machine fully mix and store various types of fibers that have been preliminarily loosened. Its main features are as follows:

- Adopt rotary cotton throwing device for even distribution of fiber in the bin
- Height of material level is controlled by photoelectric switch
- PVC conveying curtain and corner pin curtain control the feeding of cotton via photoelectric linkage, allowing the cotton mixing to be more uniform
- Several emergency stop switches are set around the equipment, aiming to stop the machine in time in case of abnormal conditions

设备主要参数 Main parameters of equipment

机型	Model	RFMM10
气纤分离器安装工位	Gas fiber separator installation workstation	2或3
储棉空间 (m ³)	Cotton storage space (m ³)	15、20
工作幅宽 (mm)	Operating Width (mm)	2000
产量 (kg/h)	Output (kg/h)	400
装机功率 (kw)	Installed power (kw)	11.74
外形尺寸(长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	7500 x 2800 x 4400
全机净重 (kg)	Net weight of the whole machine (kg)	4400

RFMM10 中仓混棉机(含三辊开松) Mid-Bin Cotton Blender Machine (Including Three-Roll Opening)



本产品对各种经过初步开松的纤维进行充分的混合及存储,并对其它设备的回花收集使用。其主要技术特征如下:

- 光电开关控制料位高度
- 采用旋转抛棉装置,将纤维均匀的分布在中仓内
- PVC输送帘和开松辊通过光电联动控制供棉,使混棉更为均匀
- 设备周围设置多处急停开关,异常状况时,能够及时停机

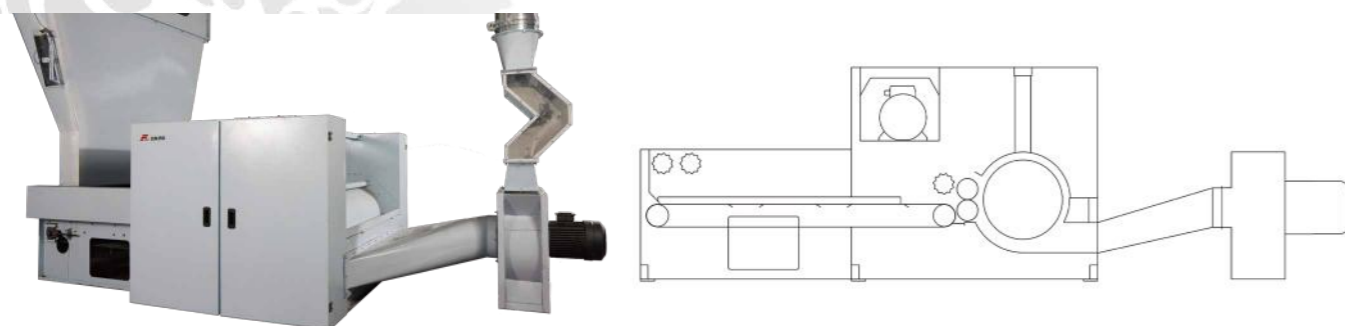
The machine fully mix and store various types of fibers that have been preliminarily loosened, and collect and use the lap waste of other equipment. Its main features are as follows:

- Height of material level is controlled by photoelectric switch
- Adopt rotary cotton throwing device for even distribution of fiber in the bin
- PVC conveying curtain and corner pin curtain control the feeding of cotton via photoelectric linkage, allowing the cotton mixing to be more uniform
- Several emergency stop switches are set around the equipment, aiming to stop the machine in time in case of abnormal conditions

设备主要参数 Main parameters of equipment

机型	Model	RFMM10
气纤分离器安装工位	Gas fiber separator installation workstation	3
储棉空间 (m ³)	Cotton storage space (m ³)	20
工作幅宽 (mm)	Operating Width (mm)	2000
产量 (kg/h)	Output (kg/h)	400
装机功率 (kw)	Installed power (kw)	14.1
外形尺寸(长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	6820 x 2620 x 5010
全机净重 (kg)	Net weight of the whole machine (kg)	4500

RFMO11 精开松机 Precise Opener



本产品适用于将经初步开松的各种等级的原棉、棉型化纤和76mm以下的中长化纤进一步开松。其主要特征如下：

- 大金属锯齿或角钉开松辊
- 喂入采用槽形无缝钢管罗拉夹持喂入
- 喂入平帘采用PVC帘
- 两侧安装急停开关
- 防护门装有门限开关，当仓门打开的时候机器会停止运行
- 开松辊上盖配有电子锁，在锡林完全停止前无法打开，保护操作人员安全

The machine is applicable to further open and loosen various grades of raw cotton, cotton-type chemical fiber and medium length chemical fibers below 76mm. Its main features are as follows:

- Large metal saw-tooth or foot nail opening roller
- Adopt groove seamless steel pipe roller clamp for feeding
- The feeding flat curtain adopts PVC curtain
- Emergency stop switches are installed on both sides
- The protective door is equipped with a door limit switch. The machine will stop running when the compartment door is opened
- The upper cover of opening roller is equipped with an electronic lock, which cannot be opened until the cylinder is completely stopped, aiming to protect the operator

设备主要参数 Main parameters of equipment

机型	Model	RFMO11
工作幅宽 (mm)	Operating Width (mm)	1500
产量 (kg/h)	Output (kg/h)	600
装机功率 (kw)	Installed power (kw)	13
外形尺寸 (长×宽×高) (mm)	Overall dimensions (L x W x H) (mm)	4030 x 2150 x 1220
全机净重 (kg)	Net weight of the whole machine (kg)	1800

RFMO20 精开松机 Precise Opener



本产品适用于将经初步开松的各种等级的原棉、棉型化纤和76mm以下的中长化纤进一步开松。其主要特征如下：

- 5辊大金属锯齿开松
- 防护门装有门限开关，当仓门打开的时候机器会停止运行
- 开松辊上盖配有电子锁，在锡林完全停止前无法打开，保护操作人员安全

The machine is applicable to further open and loosen various grades of raw cotton, cotton-type chemical fiber and medium length chemical fibers below 76mm. Its main features are as follows:

- 5-roller large metal saw-tooth opening
- The protective door is equipped with a door limit switch. The machine will stop running when the compartment door is opened
- The upper cover of opening roller is equipped with an electronic lock, which cannot be opened until the cylinder is completely stopped, aiming to protect the operator

设备主要参数 Main parameters of equipment

机型	Model	RFMO20
工作幅宽 (mm)	Operating Width (mm)	1800
产量 (kg/h)	Output (kg/h)	500
装机功率 (kw)	Installed power (kw)	13.2
外形尺寸 (长×宽×高) (mm)	Overall dimensions (L x W x H) (mm)	2120 x 2460 x 2190
全机净重 (kg)	Net weight of the whole machine (kg)	3300

RFCM20 储棉箱 Cotton Storage Box



本产品适用于精开松机与气压喂棉箱之间的连续喂棉系统,提高自动喂棉均匀度。其主要特征如下:

- 光电开关控制料位高度
- 观察视窗选用防静电有机玻璃
- 采用旋转抛棉装置,将纤维均匀的分布在储棉箱内
- 内部经过防粘处理,光滑不易带纤维,且容易清洁

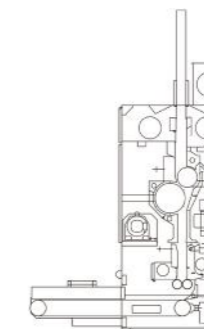
The machine is applicable to the continuous cotton feeding system between the precise opener and the pneumatic cotton feeding box,aiming to improve the uniformity of automatic cotton feeding.Its main features are as follows:

- Height of material level is controlled by photoelectric switch
- Adopt anti-static organic glass for observation window
- Adopt rotating cotton throwing device for even distribution of fiber in the cotton storage box
- Anti-bonding treatment inside, which is smooth, non-fibrous and easy to clean

设备主要参数 Main parameters of equipment

机型	Model	RFCM20
工作幅宽 (mm)	Operating Width (mm)	1700
产量 (kg/h)	Output (kg/h)	600
装机功率 (kw)	Installed power (kw)	10.45
外形尺寸 (长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	1450X1840X2190
全机净重 (kg)	Net weight of the whole machine (kg)	300

RFQG30 气压喂棉箱 Pneumatic Cotton Feeding Box



本产品适用于将经过开松混合后的纤维,形成均匀的棉层连续、均匀的喂给梳理机。其主要特征如下:

- 上、下箱体的棉量,通过气压控制,出棉均匀稳定
- 幅宽方向设置多组可独立调节的调风斗,可实现幅宽方向气流调整,保证出网均匀
- 整机多处透明观察窗,喂入辊、打手辊设置便于开合的观察门,便于观察与维护
- 设置多台补风风机,可以根据出网情况,进行对应补风
- 采用输出帘主动输出方式,出网顺畅且避免纤网意外牵伸
- 横向幅宽可根据梳理机的需求情况进行调整
- 箱内进行表面防粘处理,光洁无缠毛,清理方便
- 连续喂棉控制方式:上道工艺的输出量可随气压棉箱风压变化而变化

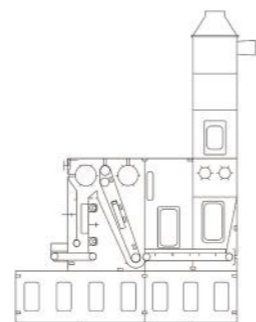
The machine is applicable for feeding the continuous and uniform cotton layer form from fibers after loosening and mixing to carding machine.Its main features are as follows:

- The cotton amount of the upper and lower boxes is controlled by air pressure, and the cotton output is uniform and stable
- Multiple groups of independently adjustable air buckets are set in the width direction, aiming to adjust the air flow in the width direction and ensure the uniform output
- The whole machine is equipped with several transparent observation windows, and the feeding roller and the driving roller have observation door, which is convenient for opening and closing for observation and maintenance
- Multiple air make-up fans are set, aiming for corresponding air make-up based on output conditions
- Adopt active output mode of output curtain to ensure smooth output and avoid accidental stretching of fiber mesh
- The transverse width can be adjusted according to the requirements of the carding machine
- Anti-bonding treatment for the surface inside the box, which shall be smooth and free of burr and easy to clean
- Continuous cotton feeding control mode: the output quantity of the previous process can vary with the air pressure of air pressure cotton box

设备主要参数 Main parameters of equipment

机型	Model	RFQG30-25	RFQG30-30	RFQG30-36
工作幅宽 (mm)	Operating Width (mm)	2500	3000	3600
产量 (kg/h)	Output (kg/h)	800	900	1100
装机功率 (kw)	Installed power (kw)	19.3	19.3	19.3
外形尺寸 (长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	2500 x 3330 x 4020	2500 x 3830 x 4020	2500 x 4430 x 4020
全机净重 (kg)	Net weight of the whole machine (kg)	4400	5500	6400

RFVB10 振动喂棉箱 Vibrating Feed Chute



本产品适用于将经过开松混合后的纤维，通过振动形式形成均匀的棉层，连续、均匀的喂给梳理机。其主要特征如下：

- 光电开关控制料位高度
- 出棉高度和速度可调
- 通过振动板振动形成均匀的棉层
- PVC输送带和角钉帘通过光电联动控制供棉，使混棉更为均匀

The machine is applicable for feeding the continuous and uniform cotton layer form from fibers after loosening and mixing to carding machine. Its main features are as follows:

- Height of material level is controlled by photoelectric switch
- The height and speed of cotton are adjustable
- Uniform cotton layer formed by vibrating plate
- PVC conveying curtain and corner pin curtain control the feeding of cotton via photoelectric linkage, allowing the cotton mixing to be more uniform

设备主要参数 Main parameters of equipment

机型	Model	RFVB10
工作幅宽 (mm)	Operating Width (mm)	2500
产量 (kg/h)	Output (kg/h)	600
装机功率 (kw)	Installed power (kw)	17.5
外形尺寸 (长×宽×高) (mm)	Overall dimensions (L x W x H) (mm)	5030 x 3020 x 6440
全机净重 (kg)	Net weight of the whole machine (kg)	6700

RFQV10 气压振动喂棉箱 Pneumatic Vibrating Feed Chute



本产品适用于将经过开松混合后的纤维，通过振动形式形成均匀的棉层，连续、均匀的喂给梳理机。其主要特征如下：

- 本机采用国际先进技术标准，整个腔体气压控制平顺
- 保留气压棉箱的气压控制优势基础上，新增振棉板组件
- 通过振棉板的振动，有效的增大纤网密度，保证横向均匀度
- 振棉板采用变频控制，可以根据实际出网效果，进行适当调节
- 振棉板接触面，选用栅格板，在挤压纤网时可以进行纤网排气

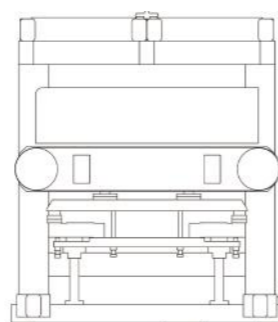
The machine is applicable for feeding the continuous and uniform cotton layer form from fibers after loosening and mixing to carding machine. Its main features are as follows:

- The machine adopts international advanced technical standards, featured at smooth control of air pressure of the whole cavity
- The vibrating plate assembly is added on the basis of maintaining air pressure control advantage of air pressure cotton box
- The vibration of vibrating cotton plate effectively increases the density of the fiber mesh to ensure the horizontal evenness
- The vibrating plate adopts frequency conversion control, which can be appropriately adjusted according to the actual output effect.
- Adopt grid plate for the contact surface of cotton vibrating plate, which can exhaust the fiber mesh when pressing

设备主要参数 Main parameters of equipment

机型	Model	RFQV10
工作幅宽 (mm)	Operating Width (mm)	1800
产量 (kg/h)	Output (kg/h)	400
装机功率 (kw)	Installed power (kw)	6.8
外形尺寸 (长×宽×高) (mm)	Overall dimensions (L x W x H) (mm)	1110 x 2580 x 3900
全机净重 (kg)	Net weight of the whole machine (kg)	2200

RFEW20 电子称重器 Electronic Weighing Device



本产品适用于非织造布生产线中,用于将气压棉箱输出的棉层经称量后喂入梳理机,控制生产过程中梳理机的喂棉量,使单位截面上喂入梳理机的棉量更加均匀。其主要技术特征如下:

- 碳帘输送,防止静电粘网
- 碳纤维辊体、铝合金框架,整体质量较轻,减小称重误差
- 高精度传感器,保证称重精度
- 支点式称重结构,减小外部干扰,提高称重准确度
- 控制系统,反馈灵敏,运动精确,有效控制纤维喂入量
- 伺服电机控制,保证输送帘运转平稳,速度控制精确

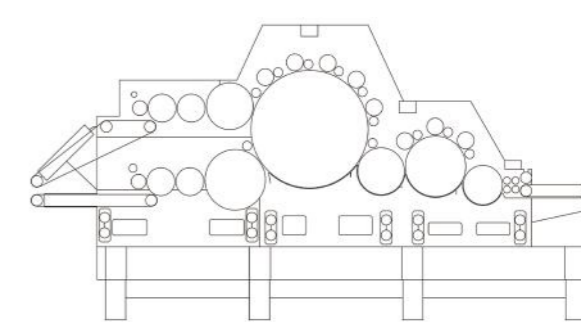
This machine is applicable to the production line of non-woven fabrics, which is used to weigh the cotton layer output by the air pressure cotton box and feed it into the carding machine, to control the feeding amount of the carding machine during production process, allowing the feeding amount of cotton into the carding machine on the unit section to be more uniform. Its main features are as follows:

- Carbon curtain conveying, to prevent electrostatic mesh adhesion
- Carbon fiber roller body, aluminum alloy frame, light overall weight, to reduce weighing error
- High-precision sensor to ensure weighing accuracy
- Pivot-type weighing structure to reduce external interference and improve weighing accuracy
- The control system, featured at sensitive feedback and precise motion, to effectively control the fiber feeding amount
- Servomotor control to ensure stable operation of conveying curtain and accurate speed control

设备主要参数 Main parameters of equipment

机型	Model	RFEW20-20	RFEW20-25	RFEW20-30	RFEW20-38
工作幅宽 (mm)	Operating Width (mm)	2000	2500	3000	3800
产量 (kg/h)	Output (kg/h)	同梳理机			
装机功率 (kw)	Installed power (kw)	1		1.5	
外形尺寸 (长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	735 x 2486 x 831	735 x 2986 x 831	735 x 3486 x 831	735 x 4286 x 831
全机净重 (kg)	Net weight of the whole machine (kg)	310	400	470	600

RFCD11 梳理机 Carding Machine



本产品适用于经前道开清工序初步开松的原料,通过喂棉箱喂入本机,进行开松、混合、分梳、除杂,使呈卷曲状的纤维团分梳成基本伸直的单纤维状态。广泛配置于地毯、毛毡、土工类针刺生产线。其主要技术特征如下:

- 选用双锡林双道夫结构,配置四凝聚
- 关键辊体单独配置电机减速机,便于工艺调整
- 辊体、漏底(冲孔网眼形式)、机架等关键件精度严格把控,运行稳定性强
- 全封闭梳理空腔,合理的抽吸系统,减少梳理空腔内飞花,保证出网质量
- 独特的吸边装置,出网整齐,无虚边
- 喂棉处设置防金属装置,有效避免金属杂质混入梳理机
- 设备周围设置多处急停开关,异常状况时,能够及时停机

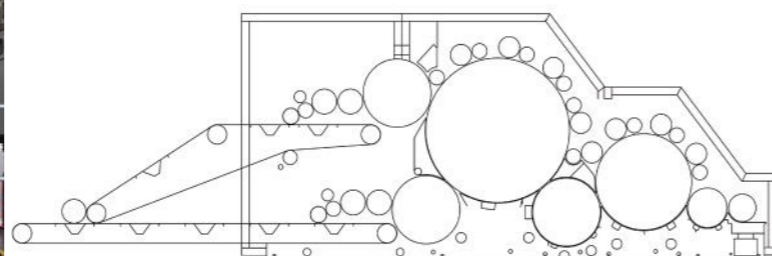
The machine is applicable to the raw materials that are preliminarily opened and loosened by the previous opening and cleaning process, which are fed into the machine via cotton feeding box for opening, mixing, combing and impurity removal, allowing to separate the curled fiber mass into a basically straight single fiber status. It is widely applied in carpet, felt, and geotechnical needling production line. Its main features are as follows:

- Adopt double-cylinder and double-doff structure, configure four agglomerations
- The key roller body is separately equipped with a motor reducer, aiming to facilitate process adjustment
- Precision of key parts, e.g. roller body, bar grid (punching mesh form) and frame is strictly controlled, with strong operation stability
- Fully enclosed carding cavity, with reasonable suction system, to reduce flying in carding cavity and ensure output quality
- Unique edging device, neat output, without virtual edges
- Anti-metal device is set at the cotton feeding place, aiming to effectively prevent metal impurities from entering the carding machine
- Several emergency stop switches are set around the equipment, aiming to stop the machine in time in case of abnormal conditions

设备主要参数 Main parameters of equipment

机型	Model	RFCD11-18	RFCD11-20	RFCD11-25	RFCD11-30
工作幅宽 (mm)	Operating Width (mm)	1800	2000	2500	3000
出网速度 (m/min)	Output speed (m/min)	50			
纤网克重 (g/m ²)	Fiber mesh weight (g/m ²)	30-80			
装机功率 (kw)	Installed power (kw)	65	65	70	76
外形尺寸 (长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	8810x5290x3130	8810x5490x3130	8810x5990x3130	8810x6490x3130
全机净重 (kg)	Net weight of the whole machine (kg)	18150	19450	22700	25950

RFCD20 高速梳理机 High-Speed Carding Machine



本产品适用于经前道开清工序初步开松的原料,通过喂棉箱喂入本机,进行开松、混合、分梳、除杂,使呈卷曲状的纤维团分梳成基本伸直的单纤维状态。广泛配置于水刺生产线、高速针刺生产线、热风生产线。其主要技术特征如下:

- 选用双锡林双道夫结构,配置四凝聚辊
- 主锡林直径1500mm,胸锡林直径1000mm,配置8组梳理单元,满足高产、高质量梳理要求
- 关键辊体单独配置电机减速机,并且多采用直连减速机安装方式,速度精确稳定,便于工艺调整
- 辊体、漏底、机架等关键件精度严格把控,运行稳定性强
- 先进的抽吸系统,实现尘纤分离,合理的抽吸点布置,适应大幅宽高速梳理机的生产需求,保障了梳理区的负压状态,及洁净度,减少整机停车清理次数
- 全机主体装于导轨之上,分前中后三大部分,各部分可整体沿导轨移动,便于安装、维护
- 喂棉处设置防金属装置,有效避免金属杂质混入梳理机
- 设备周围设置多处急停开关,异常状况时,能够及时停机
- 梳理机外形美观大方,具有全封闭式铝合金顶罩和侧门,顶罩可由电动推杆打开

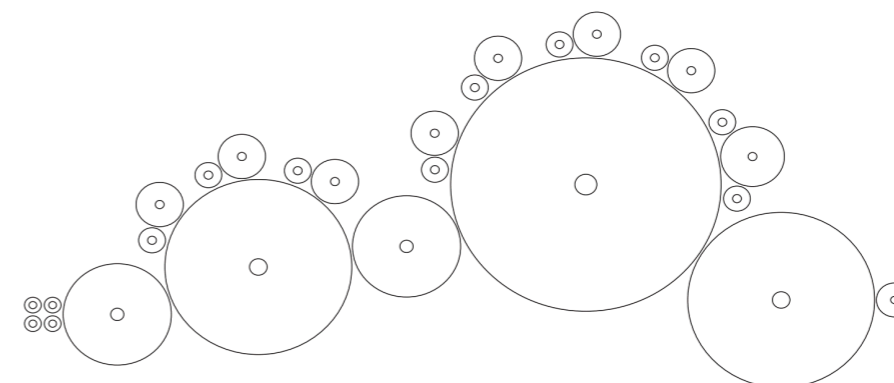
The machine is applicable to the raw materials that are preliminarily opened and loosened by the previous opening and cleaning process, which are fed into the machine via cotton feeding box for opening, mixing, combing and impurity removal, allowing to separate the curled fiber mass into a basically straight single fiber status. It is widely used in spun-laced production lines, high-speed needle punching production lines, and hot air production lines. Its main features are as follows:

- Adopt double-cylinder and double-doffer structure, with four condensing rollers configured
- The diameter of main cylinder is 1500mm, and the diameter of breast cylinder is 1000mm. it is equipped with eight groups of carding units to meet the requirements of high yield and high quality carding
- The key roller body is separately equipped with a motor reducer, and often adopts a direct connection reducer installation method, featured at precise and stable speed, aiming to facilitate process adjustment
- Precision of key parts, e.g. roller body, bar grid and frame is strictly controlled, with strong operation stability
- The advanced suction system realizes the separation of dust and fiber, and reasonable arrangement of suction points, which can adapt to the production requirements of large and wide high-speed carding machine, ensure the negative pressure status and cleanliness of the carding area, and reduce the times of machine shutdown cleaning
- The main body of the whole machine is installed on the guide rail and divided into the three parts of front, middle and rear parts. Each part can move along the guide rail as a whole, making it easy for installation and maintenance
- Anti-metal device is set at the cotton feeding place, aiming to effectively prevent metal impurities from entering the carding machine
- Several emergency stop switches are set around the equipment, aiming to stop the machine in time in case of abnormal conditions
- The carding machine is featured at beautiful appearance, equipped with a fully enclosed aluminum alloy top cover and side doors. The top cover can be opened by electric push rod

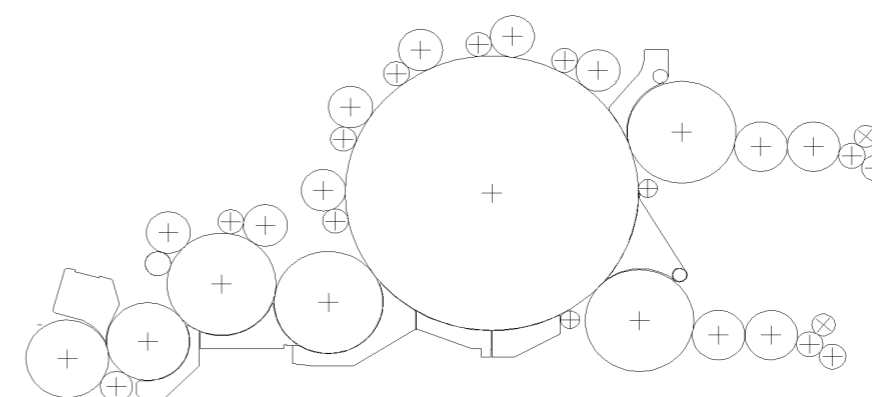
设备主要参数 Main parameters of equipment

机型	Model	RFCD20-25	RFCD20-30	RFCD20-38
工作幅宽 (mm)	Operating Width (mm)	2500	3000	3800
出网速度 (m/min)	Output speed (m/min)	100		
纤网克重 (g/m ²)	Fiber mesh weight (g/m ²)	30-50		
装机功率 (kw)	Installed power (kw)	88-158		
外形尺寸 (长 X 宽 X 高) (mm)	Overall dimensions (L x W x H) (mm)	12360 x 7930 x 3480	12360 x 8430 x 3480	12360 x 9230 x 3480
全机净重 (kg)	Net weight of the whole machine (kg)	33500	40800	51000

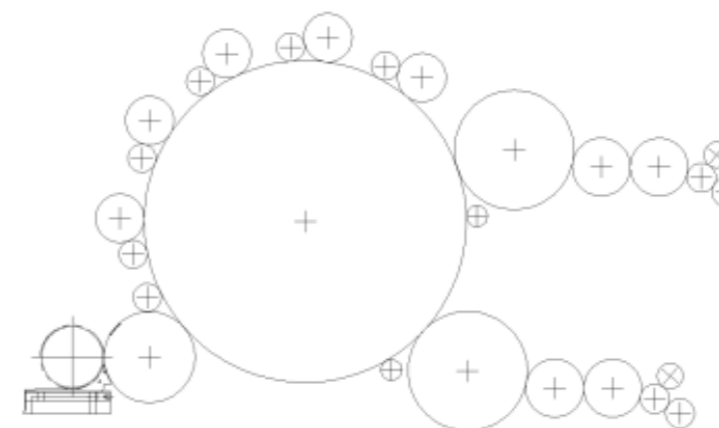
RFCD13 PTFE专用梳理机 PTFE Special Carding Machine



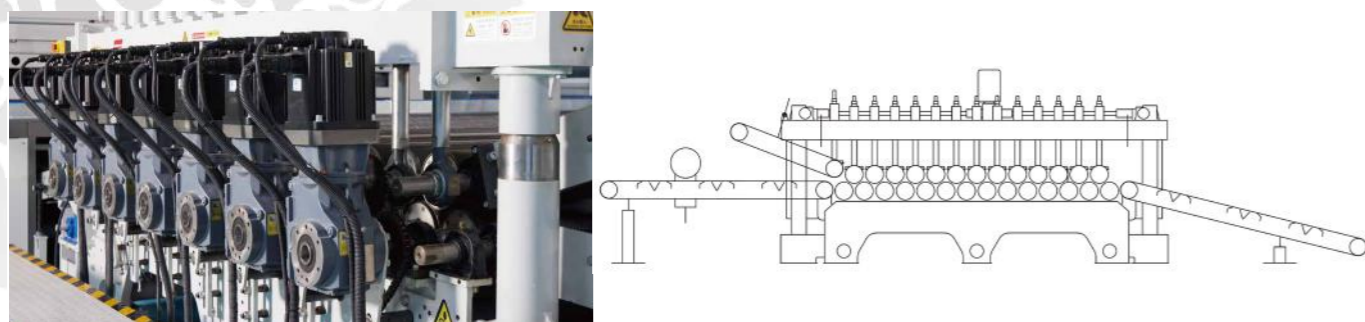
RFCD21 双锡林双道夫高速梳理机 Double Cylinder And Double Doffer High Speed Carding Machine



RFCD22 单锡林双道夫高速梳理机 Single Cylinder and Double Doffer High Speed Carding Machine



RFRD21 多辊牵伸机 Multi Roller Drafter



本产品适用将铺网机铺出的横向层叠的纤网进行牵伸,把部分纤维拉成纵向或者趋近纵向,使纤网的纤维出现杂乱,改善纤网各向均匀度,纤网经过牵伸机的牵伸后,不但获得各向同性,还会使纤网拉长。其主要技术特征如下:

- 根据牵伸需求配置牵伸辊组数,每组牵伸辊独立电机驱动,调整方便
- 配置单独电机驱动的上层罗拉升起装置,需要时整体升起上层罗拉
- 控制系统,精确计算、合理分布,保证纤网均匀牵伸,牵伸比自由调整

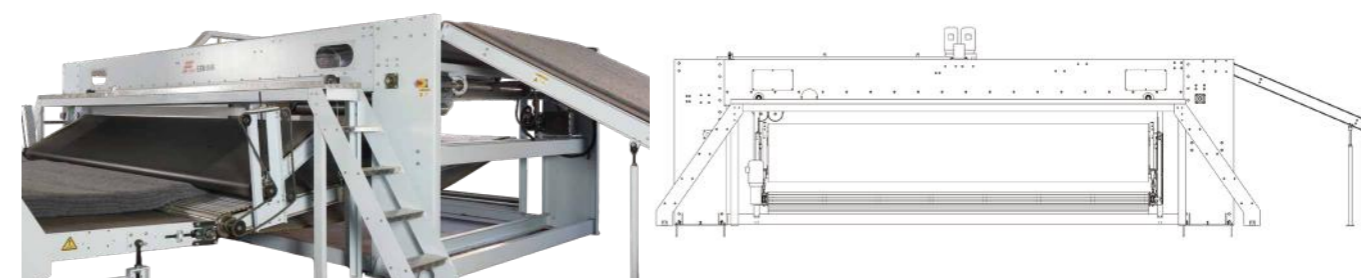
The machine is applicable to, drawing the transversely laminated fiber mesh paved by the cross lapper, pulling part of the fibers into longitudinal or close to the longitudinal direction, making the fibers of the fiber net disordered, improving the uniformity of the fiber net. After drawing of the fiber mesh by the drafter, it not only obtains isotropy, but also draws the fiber mesh long. Its main features are as follows:

- The number of sets of stretching rollers is configured depending on drafting requirements, and each set of drafting rollers is driven by an independent motor for easy adjustment
- A separate motor-driven upper roller lifting device is equipped to lift the upper roller as a whole if necessary
- Control system, accurate calculation and reasonable distribution, to ensure uniform drafting of fiber mesh and free adjustment of drafting ratio

设备主要参数 Main parameters of equipment

机型	Model	RFRD21
工作幅宽 (mm)	Operating Width (mm)	2000-7000
牵伸比	Draft ratio	1:1—1:4
牵伸辊数量	Number of drafting rollers	27
装机功率 (kw)	Installed power (kw)	75
外形尺寸 (长×宽×高) (mm)	Overall dimensions (L x W x H) (mm)	6760 x 6920 x 1700 (Width 4000)
全机净重 (kg)	Net weight of the whole machine (kg)	12900 (Width 4000)

RFCL11 铺网机 Lapper



本产品适用于将梳理机输送的纤网,通过往复小车,交叉折叠,形成适当宽度的多层纤网,通过喂入机,送进预刺机进行预加固。适用于低速针刺生产线。其主要技术特征如下:

- 自动化集成把铺网小车的往复运动转换成输出帘持续的速度
- 当铺网小车逆转换向时上小车可储存棉网
- profile棉网轮廓整形功能,改善纤网轮廓
- 全自动开启安全监督系统
- 电动升降输送带
- 采用优质防静电PVC输送带
- 6台马达驱动,其中铺网小车采用伺服马达驱动
- 采用不锈钢包覆辊,更结实耐用,防腐性好
- 彩色电子显示控制屏

The machine is applicable to the fiber mesh conveyed by carding machine, and forms a multilayer fiber mesh with appropriate width by way of cross folding via a reciprocating trolley. The fiber mesh is fed into the pre-piercing machine for pre-reinforcement via feeding machine. It is applicable to low speed needle punched production line. Its main features are as follows:

- Automation integration converts the reciprocating motion of lapping trolley into the continuous speed of the output curtain
- The top trolley can store the cotton web when the lapping trolley reverses the direction
- Profile cotton web contour shaping function to improve fiber mesh contour
- Fully automatic opening of security supervision system
- Electric lifting of conveying curtain
- Adopt high-quality anti-static PVC conveying curtain
- Sets of motor drive, of which the lapping trolley is driven by servo motor
- Adopt stainless steel wrapping rolls, featured at durability and good corrosion protection effect
- Color electronic display control panel

设备主要参数 Main parameters of equipment

机型	Model	RFCL11
输入纤网幅宽 (mm)	Width of input fiber mesh (mm)	1500-2800
输出纤网幅宽 (mm)	Width of output fiber mesh (mm)	2500-10000
输入纤网速度 (m/min)	Input fiber mesh speed (m/min)	≤45
铺网速度 (m/min)	Lapping speed (m/min)	≤55
装机功率 (kw)	Installed power (kw)	12.6
外形尺寸 (长×宽×高) (mm)	Overall dimensions (L x W x H) (mm)	9510 x 3390 x 2640 (input 2500, output 5000)
全机净重 (kg)	Net weight of the whole machine (kg)	6400 (Input 2500, output 5000)

RFCL21 铺网机 Lapper



本产品适用于将梳理机输送的纤网，通过往复小车，交叉折叠，形成适当宽度的多层纤网，通过喂入机，送进预刺机进行预加固。适用于高速针刺生产线。其主要技术特征如下：

- 自动化集成把铺网小车的往复运动转换成输出帘持续的速度
- 当铺网小车逆转向时上小车可储存棉网
- profile棉网轮廓整形功能，使铺设好的纤网两边比中间还低
- 全自动开启安全监督系统
- 电动升降输送帘
- 采用优质碳帘，强度高，防静电
- 采用碳纤维辊，小车重量更轻，换向更稳定
- 彩色电子显示控制屏

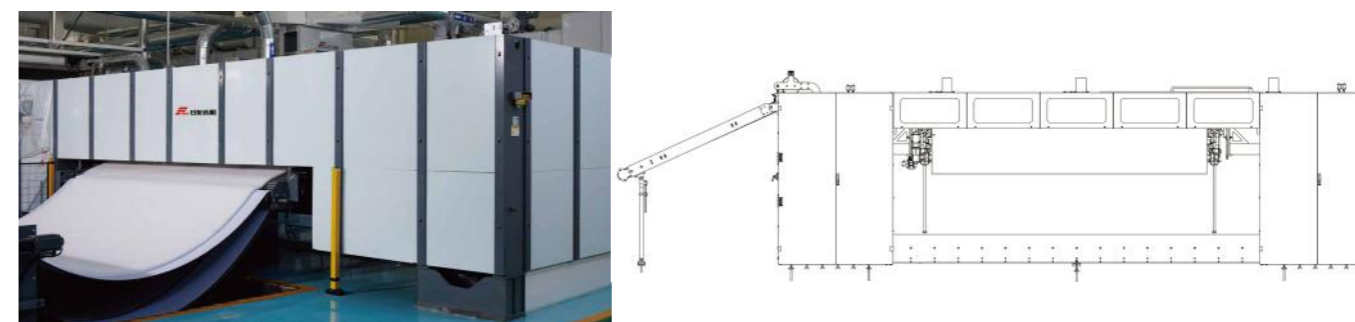
The machine is applicable to the fiber mesh conveyed by carding machine, and forms a multilayer fiber mesh with appropriate width by way of cross folding via a reciprocating trolley. The fiber mesh is fed into the pre-piercing machine for pre-reinforcement via feeding machine. It is applicable to high-speed needle punched production line. Its main features are as follows:

- Automation integration converts the reciprocating motion of lapping trolley into the continuous speed of the output curtain
- The top trolley can store the cotton web when the lapping trolley reverses the direction
- Profile cotton web contour shaping function, allowing the two sides of lapped fiber mesh to be lower than the middle
- Fully automatic opening of security supervision system
- Electric lifting of conveying curtain
- Adopt high-quality carbon curtain, featured at high strength and anti-static properties
- Adopt carbon fiber roller, the trolley is lighter, and change of direction is more stable
- Color electronic display control panel

设备主要参数 Main parameters of equipment

机型	Model	RFCL21
输入纤网幅宽 (mm)	Width of input fiber mesh (mm)	2000-3500
输出纤网幅宽 (mm)	Width of output fiber mesh (mm)	2500-6000
输入纤网速度 (m/min)	Input fiber mesh speed (m/min)	≤80
铺网速度 (m/min)	Lapping speed (m/min)	≤100
装机功率 (kw)	Installed power (kw)	61.5
产品克重偏差	Product weight deviation	CV≤3%
外形尺寸 (长×宽×高) (mm)	Overall dimensions (L x W x H) (mm)	9530 x 4270 x 2180 (input 2500、output 4000)
全机净重 (kg)	Net weight of the whole machine (kg)	18900 (input 2500、output 4000)

RFCL30 铺网机 Lapper



本产品适用于将梳理机输送的纤网，通过往复小车，交叉折叠，形成适当宽度的多层纤网，通过牵伸后送入水刺机，进行水刺法加固。适用于水刺生产线。其主要技术特征如下：

- 柔性补偿帘:自动化集成把铺网机输出帘的间歇运动转换成持续的速度
- 当铺网小车逆转向时上小车可储存棉网
- profile棉网轮廓整形功能，使铺设好的纤网两边比中间还低
- 全自动开启安全监督系统
- 电动升降输送帘
- 采用水刺专用防静电输送帘
- 采用优质碳帘，强度高，防静电
- 采用碳纤维辊，小车重量更轻，换向更稳定
- 彩色电子显示控制屏

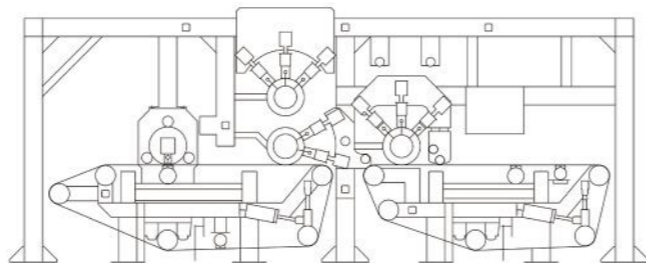
The machine is applicable to the fiber mesh conveyed by carding machine, and forms a multilayer fiber mesh with appropriate width by way of cross folding via a reciprocating trolley. The fiber mesh is fed into the pre-piercing machine for pre-reinforcement via feeding machine. It is applicable to spun-laced production line. Its main features are as follows:

- Flexible compensation curtain: Automation integration converts the intermittent motion of lapping trolley into the continuous speed of the output curtain
- The top trolley can store the cotton web when the lapping trolley reverses the direction
- Profile cotton web contour shaping function, allowing the two sides of lapped fiber mesh to be lower than the middle.
- Fully automatic opening of security supervision system
- Electric lifting of conveying curtain
- Adopt special spun-laced anti-static conveyor curtain
- Adopt high-quality carbon curtain, featured at high strength and anti-static properties
- Adopt carbon fiber roller, the trolley is lighter, and change of direction is more stable
- Color electronic display control panel

设备主要参数 Main parameters of equipment

机型	Model	RFCL30
输入纤网幅宽 (mm)	Width of input fiber mesh (mm)	2000-3500
输出纤网幅宽 (mm)	Width of output fiber mesh (mm)	2500-6000
输入纤网速度 (m/min)	Input fiber mesh speed (m/min)	≤100
铺网速度 (m/min)	Lapping speed (m/min)	≤130
产品克重偏差	Product weight deviation	CV≤3%
装机功率 (kw)	Installed power (kw)	64.8

RFRS21 水刺机 Spun-laced Machine



本产品适用于将经过梳理机(或交叉铺网机、多辊牵伸机)的纤网进行水刺,使纤网互相缠绕加固形成水刺布,一般采用“三辊筒+后平台”模式。辊筒式水刺机的转鼓采用镍网或不锈钢丝网,两种网可按工艺进行互换,具有较强的反射力度,缠结效果好,可生产不同克重和不同风格的水刺布。其主要技术特征如下:

- 本机由机架、平帘、预湿转鼓、缠结转鼓、水刺头、导辊、后平台、电气控制柜等组成
- 机架材料:优质碳钢,表面采用搪锌防锈处理
- 水刺头采用优质不锈钢锻打材料整体加工而成,采用水压自密封,承压 $\leq 260\text{Bar}$
- 水刺头安装附件采用304不锈钢
- 转鼓采用不锈钢冲孔网筒+不锈钢丝网+镍网的结构方式,更坚固耐用
- 电气控制:PLC、变频器、彩色电子显示控制屏

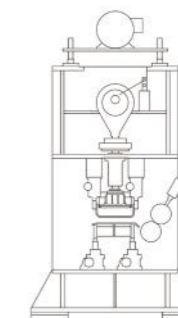
The machine is applicable to spun-lacing of fiber mesh passing through carding machine (or cross lapper and multi roller dafter), allowing the fiber mesh to be intertwined with each other to form spun-lace cloth. Generally, it adopts the "three-roller+rear platform" mode. Roller type spun-laced machine adopts nickel mesh or stainless steel wire mesh for the drum. The two meshes can be interchanged according to the process, featured at strong reflection and good tangling effect. It can produce spun-lace cloth of different grams and different styles. Its main features are as follows:

- The machine is composed of frame, flat curtain, pre-wetting drum, tangled drum, spun-lace head, guide roller, rear platform, electrical control cabinet, etc
- Frame material: high-quality carbon steel, with surface zinc coating for rust prevention
- The spun-lace head is integrally processed from high-quality stainless steel forging materials, and adopts hydraulic self-sealing, with pressure $\leq 260\text{Bar}$
- Adopt stainless steel 304 for installation accessories of spun-lace head
- The drum adopts the structure of stainless steel punching mesh+stainless steel wire+nickel mesh, featured at being more solid and durable
- Electrical control: PLC, frequency converter, and color electronic display control panel

设备主要参数 Main parameters of equipment

机型	Model	RFRS21
工作幅宽 (mm)	Operating Width (mm)	3500
工作速度 (m/min)	Operating speed (m/min)	≤ 100
水刺头数量	Number of spun-laced heads	8+1
水刺形式	Spun-lace form	喂入平帘+3圆鼓水刺+后平台(带高压抽吸) Feeding flat curtain + 3 round drum spun-laces + rear platform (with high pressure suction)
装机功率 (kw)	Installed power (kw)	27.5

RF1BPU50 预刺机 Pre-needling Machine



本产品适用于将各种纤网叠层后定型、加固。其主要技术特征如下:

- 所有焊接框架热处理消除焊接应力
- 大油箱结构,冷却油循环润滑、压力保护
- 超硬铝合金整体针梁,镁合金针板复合PU、气囊锁紧、气压保护
- 主轴材料合金钢经粗车、精车、精磨。推杆材料38CrMoAL,经调质后,表面氮化、镜面处理推杆轴套采用巴氏合金ZSnSb11Cu6,确保推杆寿命,推杆油封为定制直线型
- 托网板、剥网板采用电脑锁孔、扩孔、喷砂处理,表面镀铬,电动升降,限位保护
- 气动抱闸系统。主机停机后刺针脱离布面并制动
- 输出端配套强磁吸针装置
- 机上设紧急停止开关,必要处警示标记

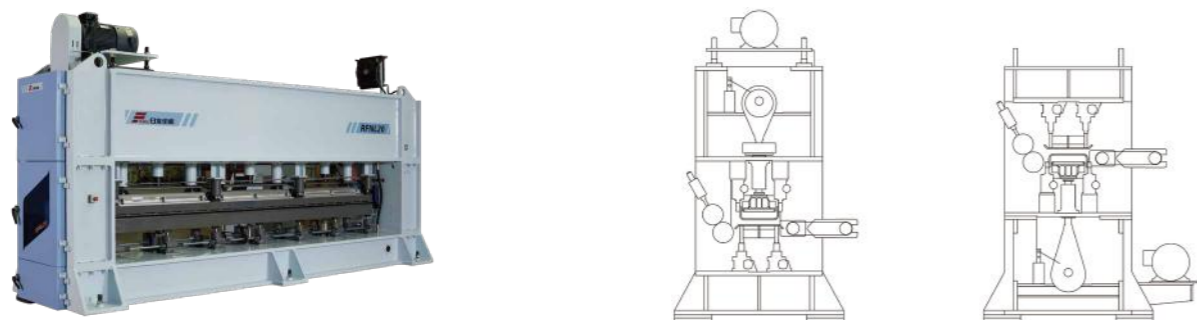
The machine applicable for shape finalizing and reinforcing of various fiber meshes after laminating. Its main features are as follows:

- All welded frames are subject to heat treatment to remove welding stresses
- Large oil tank structure, cooling oil circulation lubrication, pressure protection
- Super hard aluminum alloy overall needle beam, magnesium alloy needle plate composite PU, air bag locking, and air pressure protection
- The main shaft adopts material of alloy steel, processed by rough turning, fine turning and fine grinding. The push rod adopts material of 38CrMoAL, with surface nitrided and finishing after tempering. The push rod shaft sleeve adopts babbitt ZSnSb11Cu6 to ensure the service life of the push rod. The oil seal for push rod adopts customized linear type
- The supporting plate and stripping mesh plate are with computer locking hole, reaming and sand blasting treatment, chrome plating for surface, electric lifting and limit protection.
- Pneumatic band-type brake system. The felting needle detaches from the cloth and brakes after the host machine stops.
- Output end is equipped with strong magnetic needle suction device
- The machine is equipped with an emergency stop switch and necessary warning signs

设备主要参数 Main parameters of equipment

机型	Model	RF1BPU50
工作幅宽 (mm)	Operating Width (mm)	2000-9000
针刺动程 (mm)	Needle stroke (mm)	50、60、70
针刺频率 (次/分钟)	Needle frequency (s/min)	≤ 1000
装机功率 (kw)	Installed power (kw)	36 (Width 5000)

RF1BMU50/RF1BMD50 高速针刺机 High-Speed Needle-Punching Machine



本产品适用于将各种成型织物的加固。其主要技术特征如下：

- 所有焊接框架热处理消除焊接应力
- 大油箱结构，冷却油循环润滑、压力保护
- 超硬铝合金整体针梁，镁合金针板复合PU、气囊锁紧、气压保护
- 主轴材料合金钢经粗车、精车、精磨。推杆材料38CrMoAL，经调质后，表面氮化、镜面处理推杆轴套采用巴氏合金ZSnSb11Cu6，确保推杆寿命，推杆油封为定制直线型
- 托网板、剥网板采用电脑锁孔、扩孔、喷砂处理，表面镀铬，电动升降，限位保护
- 气动抱闸系统。主机停机后刺针脱离布面并制动
- 输出端配套强磁吸针装置
- 机上设紧急停止开关，必要处警示标记设备主要参数

The machine is applicable for reinforcement of various shaped fabrics. Its main features are as follows:

- All welded frames are subject to heat treatment to remove welding stresses
- Large oil tank structure, cooling oil circulation lubrication, pressure protection
- Super hard aluminum alloy overall needle beam, magnesium alloy needle plate composite PU, air bag locking, and air pressure protection
- The main shaft adopts material of alloy steel, processed by rough turning, fine turning and fine grinding. The push rod adopts material of 38CrMoAL, with surface nitrided and finishing after tempering. The push rod shaft sleeve adopts babbitt ZSnSb11Cu6 to ensure the service life of the push rod. The oil seal for push rod adopts customized linear type
- The supporting plate and stripping mesh plate are with computer locking hole, reaming and sand blasting treatment, chrome plating for surface, electric lifting and limit protection.
- Pneumatic band-type brake system. The felting needle detaches from the cloth and brakes after the host machine stops.
- Output end is equipped with strong magnetic needle suction device
- The machine is equipped with an emergency stop switch and necessary warning signs

设备主要参数 Main parameters of equipment

机型	Model	RF1BMU50、RF1BMD50
工作幅宽 (mm)	Operating Width (mm)	2000-9000
针刺动程 (mm)	Needle stroke (mm)	25、35、40
针刺频率 (次/分钟)	Needle frequency (s/min)	≤1400
装机功率 (kw)	Installed power (kw)	37.5 (Width4800)

RFWR20 喂入机 Feeding Machine



本产品适用于将交叉铺网机交叉铺叠的多层纤网逐步压实，通过手指式导网环导入预针刺区。其主要技术特征如下：

- 整机导轨移动式，便于维护
- 防静电帘夹持式喂入，开口气动式可调；
- 喂入帘小辊喂入，小菱形区，间距可调，喂入辊直径55mm
- 喂入辊表面镀铬，喂入电机采用变频传动，喂入速度无级可调
- 机上设紧急停止开关，必要处警示标记

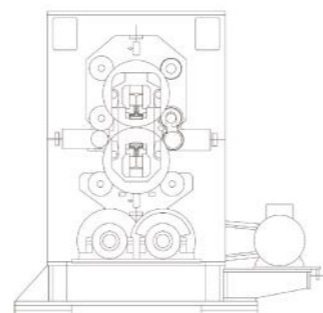
The machine is applicable to the gradual compaction of multi-layer fiber mesh that are alternately lapped by the cross lapper and induction of it into the pre-needed area via finger-type guide ring. Its main features are as follows:

- Movable guide rail of the whole machine, easy for maintenance.
- Anti-static curtain clamping feeding, with opening pneumatic adjustable.
- Feeding by small roller of feeding curtain, small diamond area, with adjustable spacing, feeding roller diameter of 55mm.
- The surface of feeding roller is chrome plated, the feeding motor adopts variable frequency transmission, and the feeding speed is infinitely adjustable.
- The machine is equipped with an emergency stop switch and necessary warning signs.

设备主要参数 Main parameters of equipment

机型	Model	RFWR20
工作幅宽 (mm)	Operating Width (mm)	2000-9000
入网速度 (m/min)	Access speed (m/min)	≤15
定量 (g/m ²)	Rate quantity (g/m ²)	≤2500
装机功率 (kw)	Installed power (kw)	3
外形尺寸 (长×宽×高) (mm)	Overall dimensions (L x W x H) (mm)	2860 x 5430 x 1430 (Width 5000)

RFGT10 双辊筒预刺机 Double-Roller Pre-Punching Machine



本产品适用于双辊筒转动喂入同时进行双面对刺，零牵伸预刺加固，适合低卷曲、光滑纤维等特殊纤维，双辊筒挤压适合大克重非织造布的预刺，不需要单独的喂入机。其主要技术特征如下：

- 双板对刺
- 带孔的双辊筒代替托网板剥网板，刺针的轨迹近似椭圆
- 最大针刺频率400次/分
- 入网速度≤10米/分
- 最大幅宽3600
- 针板用气囊锁定，更换方便

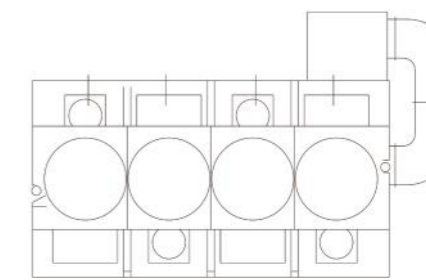
The machine is applicable to double-roller rotation feeding and double-side needle punchingsimultaneously,zero draft pre-punching enforcement for special fibers,e.g. low curl, smooth fibers,double-roller extrusion, suitable for pre-punching of heavy non-woven fabrics,no need of separate feeding machine. Its main features are as follows:

- Double plate needle punching
- Double-roller with hole to replace the supporting plate strippingmesh plate, and the trajectory of the needle is approxi mately elliptical
- Maximum frequency of needle punching: 400 times/min
- Access speed ≤ 10m/min
- Maximum width 3600
- Needle plate adopts locking with air bag,making it easy for replacement

设备主要参数 Main parameters of equipment

机型	Model	RFGT10
工作幅宽 (mm)	Operating Width (mm)	2600-3600
针刺动程 (mm)	Needle stroke (mm)	50、60、80
针刺频率 (次/分钟)	Needle frequency (s/min)	400
装机功率 (kw)	Installed power (kw)	13.2-23

RFPD10 圆网干燥机 Rotary Screen Dryer



本产品适用于对经水刺加工成的非织造布进行干燥；采用热风穿透烘干技术，主要用于水刺非织造布生产线。本机采用不锈钢冲孔网外套不锈钢丝网结构，开孔率大，热风穿透力强，转鼓圆网热风均匀；圆网、风机采用交流变频调速；本机加热方式蒸汽、天然气、导热油用户可选其中的一种。其主要技术特征如下：

- 本圆网干燥机采用蒸汽（或天然气）加热、温度调节控制、冷热风掺混结构等技术，具有蒸发能力大、升温快、温度控制灵敏、排放污染小等特点
- 圆网表面布满直径3mm的冲孔，非工作面内部有圆弧型气流挡板密封，阻挡热空气穿透网孔
- 每个圆网有单独的变频电机控制转速，待烘干的水刺布经进布端导辊输送到圆网工作面，并随该圆网转送至下一个圆网工作面，这样水刺无纺布的正反面交替与圆网工作面接触
- 由于循环风机的抽吸作用形成压力差，水刺无纺布经过圆网工作面的过程中被热空气均匀穿透而烘干
- 含潮较多的空气经排湿风机排出机器外部

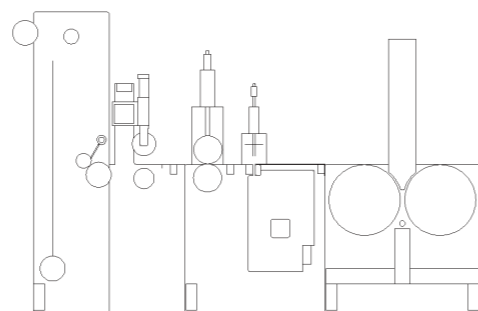
The machine is applicable for drying of non-woven fabrics after spun-laced processing; it adopts hot air penetration drying technology, which is mainly used in the production line of spun-laced non-woven fabrics. The machine adopts stainless steel wire mesh structure with stainless steel perforated mesh sleeve, featured at large opening rate, strong hot air penetration and uniform hot air of rotary drum screen; The screen and fan adopt AC frequency conversion speed regulation; Heating modes, including steam, natural gas and heat transfer oil, are available.Its main features are as follows:

- The rotary screen dryer adopts technologies including steam (or natural gas) heating, temperature regulation and control, cold and hot air mixing structure, and is featured at large evaporation capacity, fast temperature increase, sensitive temperature control and small emission pollution.
- The screen surface is full of punched holes with a diameter of 3mm, and the non-working surface is sealed with arc airflow baffle, aiming to prevent hot air from penetrating the mesh.
- Each screen is equipped with an independent variable frequency motor to control the rotational speed. The spun-lace cloth to be dried is conveyed to the working surface of the screen through the guide roller at the feeding end, and is transferred to the working surface of screen along with the screen. In this way, the front and back surfaces of the spun-laced non-woven fabrics are alternately contacted with the working surface of the screen.
- Due to the pressure difference formed by suction of circulating fan, the spun-laced non-woven fabrics are uniformly penetrated by the hot air and dried when passing through the working surface of screen.
- Air containing more moisture is discharged out of machine by the dehumidification fan.

设备主要参数 Main parameters of equipment

机型	Model	RFPD10
工作幅宽 (mm)	Operating width (mm)	3500
圆网直径 (mm)	Diameter of screen (mm)	1900或1400
圆网数量	Number of screens	3或4
烘房温度 (°C)	Temperature of drying room (°C)	100-200
加热介质	Heating medium	导热油或饱和蒸汽 Diathermic oil or saturated steam
出机回潮率 (%)	Moisture regain rate (%)	6-8
装机功率 (kw)	Installed power (kw)	247
外形尺寸 (长X宽X高) (mm)	Overall dimensions (L x W x H) (mm)	7230 x 6490 x 4520 (Width3500)
全机净重 (kg)	Net weight of the whole machine (kg)	13000 (Width3500)

RFQJ11 分切卷绕机 Cutting-winding Machine



本产品适用于将多种类型的非织造布自动卷取成卷和分切,并自动计数。适用于高速针刺生产线。其主要技术特征如下:

- 自动切断, 计数
- 配备高精度张力传感器
- 编码器计长, 并具备定长提醒功能
- 采用双辊磨擦式成卷结构
- 卷取电机采用变频控制, 速度可以自动调节
- 机上设紧急停止开关, 必要处警示标记

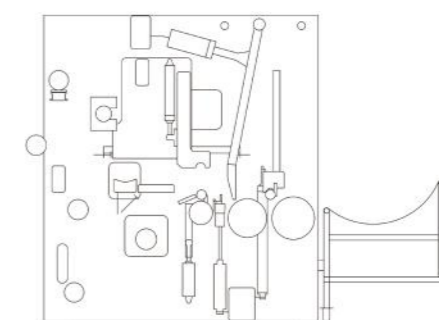
The machine is applicable to used for automatic coiling into roll, cutting and counting of various types of non-woven fabrics. Its main features are as follows:

- Automatic cutting and counting.
- Equipped with high-precision tension sensor.
- Encoder for length counting, equipped with fixed length reminding function.
- Adopt double-roller friction type coiling structure.
- The coiling motor adopts frequency conversion control, with the speed automatically adjusted.
- The machine is equipped with an emergency stop switch and necessary warning signs.

设备主要参数 Main parameters of equipment

机型	Model	RFQJ11
工作幅宽 (mm)	Operating width (mm)	2000~9000
工作速度 (m/min)	Operating speed (m/min)	15
最大卷取直径 (mm)	Maximum winding diameter (mm)	1300
装机功率 (kw)	Installed power (kw)	4
外形尺寸 (长 X 宽 X 高) (mm)	Overall dimensions (L x W x H) (mm)	2480 x 5620 x 1600 (Width 4800)
全机净重 (kg)	Net weight of the whole machine (kg)	4100 (Width 4800)

RFHW10 高速卷绕机 High-Speed Winding Machine



本产品适用于将多种类型的非织造布自动卷取成卷,并自动计数。适用于水刺生产线。其主要技术特征如下:

- 采用PLC和变频控制技术, 确保卷绕工艺过程的稳定可靠
- 采用精确的张力控制技术, 保证非织造布张力的恒定
- 主轴为嫁接结构, 有效保护旋臂的安全和长时间使用
- 自动切断, 计数, 自动换卷, 换卷不减车速

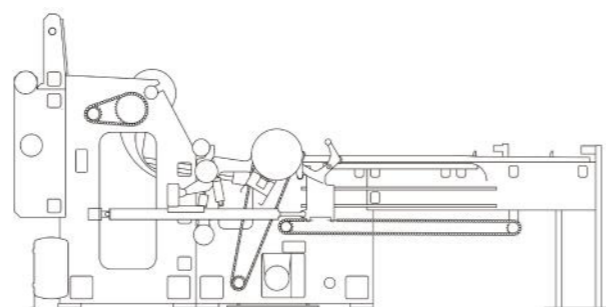
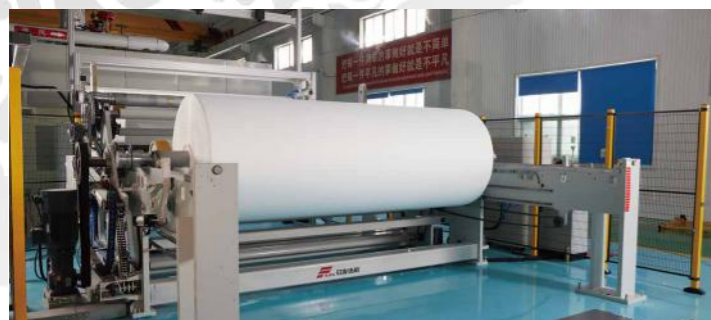
The machine is applicable to Used for automatic coiling into roll, and counting of various types of non-woven fabrics. Its main features are as follows:

- Adopt PLC and frequency conversion control technology to ensure the stability and reliability of winding process.
- Precise tension control technology to ensure constant tension of non-woven fabrics.
- The main shaft adopts grafting structure, which effectively protects the safety and ensures long-time use of the swing arm.
- Automatic cutting, counting, automatic roll change, without deceleration.

设备主要参数 Main parameters of equipment

机型	Model	RFHW10
工作幅宽 (mm)	Operating width (mm)	2500、3000、3500
工作速度 (m/min)	Operating speed (m/min)	95
最大卷取直径 (mm)	Maximum winding diameter (mm)	1100
装机功率 (kw)	Installed power (kw)	8.6
外形尺寸 (长 X 宽 X 高) (mm)	Overall dimensions (L x W x H) (mm)	2230X5340X2340 (Width 3500)
全机净重 (kg)	Net weight of the whole machine (kg)	9100 (Width 3500)

RFHW30 高速卷绕机 High-Speed Winding Machine



本产品适用于将多种类型的非织造布自动卷取成卷，并自动计数。其主要技术特征如下：

- 自动切断，计数
- 配备高精度张力传感器
- 自动换卷，换卷不减车速
- 采用气动马达飞刀断布
- 具备卷绕轴预加速功能
- 机上具有多根卷绕轴存储功能
- 带S辊张力隔离，S辊独立驱动
- 主轴为嫁接结构，有效保护旋臂的安全和长时间使用
- 布面张力和压辊压力采用SMC电子比例阀控制，保证卷绕端面平整，减少分切浪费

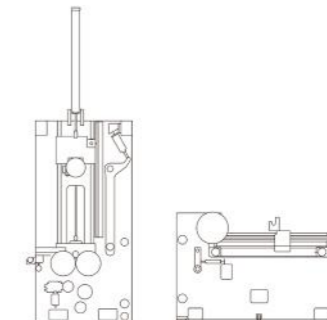
The machine is applicable to used for automatic coiling into roll, cutting and counting of various types of non-woven fabrics. Its main features are as follows:

- Automatic cutting and counting.
- Equipped with high-precision tension sensor.
- Automatic coil change without deceleration.
- Adopt pneumatic motor flying knife for cutting of cloth.
- Equipped with function of pre-acceleration of winding shaft.
- The machine has the function of storing multiple winding shafts.
- Equipped with S-roll tension isolation, and S-roll independent drive.
- The main shaft adopts grafting structure, which effectively protects the safety and ensures long-time use of the swing arm.
- Adopt SMC electronic proportional valve to control the cloth tension and roller pressure, and to ensure

设备主要参数 Main parameters of equipment

机型	Model	RFHW30
工作幅宽 (mm)	Operating width (mm)	3000、3500
工作速度 (m/min)	Operating speed (m/min)	300
最大卷取直径 (mm)	Maximum winding diameter (mm)	2500
装机功率 (kw)	Installed power (kw)	22.12
外形尺寸 (长 X 宽 X 高) (mm)	Overall dimensions (L x W x H) (mm)	5180 x 5510 x 2580 (Width 3500)
全机净重 (kg)	Net weight of the whole machine (kg)	10200 (Width 3500)

RFFQ30 高速分切机 High-Speed Slitting Machine



本产品适用于各种卫材水刺布以及热风非织造布的分切。其主要技术特征如下：

- 带液压纠偏功能
- 放卷机构带张力传感器
- 伺服电机控制退卷收卷，可实现低速不停机剔除疵点

The machine is applicable to cutting of various sanitary materials, spun-laced fabrics and hot air non-woven fabrics. Its main features are as follows:

- Equipped with hydraulic deviation correction function.
- Unwinding mechanism with tension sensor.
- Servo motor to control unwinding and winding, which can eliminate defects at low speed without shutdown of machine.

设备主要参数 Main parameters of equipment

机型	Model	RFFQ30
分切速度 (m/min)	Slitting speed (m/min)	200~400
最大退卷直径(mm)	Maximum unwinding diameter (mm)	2000
最大卷绕直径(mm)	Maximum winding diameter (mm)	1200
最小分切宽度(mm)	Minimum slitting width (mm)	45
装机功率 (kw)	Installed power (kw)	33
外形尺寸 (长 X 宽 X 高) (mm)	Overall dimensions (L x W x H) (mm)	4130X5500X4280
全机净重 (kg)	Net weight of the whole machine (kg)	9500