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QINGDAO JIERUIXIN

МАШИНОСТРОИТЕЛЬНАЯ И
ТЕХНОЛОГИЧЕСКАЯ КОМПАНИЯ, ООО



ИНФОРМАЦИЯ О КОМПАНИИ

Мы, компания QINGDAO JIERUIXIN MACHINERY AND TECHNOLOGY Co., Ltd., специализируемся на производстве оборудования для мелования бумаги, бумагоделательных машин и связанных с ними технологий. Более 20 лет опыта работы в этой области позволяют нам не только разрабатывать оборудование, но и иметь собственный химический отдел. Мы также предлагаем клиентам химические, рецептурные, технологические и другие решения. Благодаря этому наши рецептуры будут соответствовать нашим машинам, что позволит нам производить бумагу высочайшего качества.

Основными продуктами являются следующие:

Машина для нанесения покрытия на термобумагу

**Машина для нанесения покрытия на самокопирующую/
NCR-бумагу**

**Машина для нанесения покрытия на сублимационную
бумагу**

**Машина для нанесения покрытия на двусторонний
картон**



Линия по производству бумажных покрытий

ЗАРУБЕЖНЫЙ ПРОЕКТ



Iran- NCR paper coating Machine

Project Name	Machine line speed	Gram of paper	Coating Unit	Dry method	Finishing method
JRX-1760 NCR paper coating Machine	120m/min	39-60 g/□	applicator roll, metering gauge and air knife coater	Dry oven	cylinder



India-Automatic Sublimation Paper Line

Project Name	Base paper quantitative weight (GSM)	Coating method	Pickup speed	Vapor pressure	Base paper moisture	finished paper moisture
JRX-1850 Automatic Sublimation Paper Line	30 ~ 120 G/M2	air knife coating	10 m/min	0.6-0.7 Mpa	5 ~ 6%	5 ~ 6%

ЗАРУБЕЖНЫЙ ПРОЕКТ



Mexico-Thermal Paper Coating Machine Line

Project Name	Operating Speed	Coating type	Coating weight	Blade knife coater	Finishdimensioning method
JRX-1760 Thermal Paper Coating Machine Line	280-300 m / min	double blade knife coaters, three-roller type back coater	3-10 g/m ² for per coater	Φ270x1400 seamless steel pipe, chrome-plated, roller bearings P208	length 37600mm, width 6000mm, height 4140mm



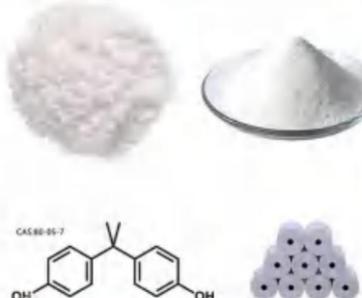
Australia-White Top Liner Coating Machine Line

Project Name	Coating Weight	Width of base paper	Oven working temperature	Coating Unit	Calender Model	Transmission parts
JRX-2700 White Top Liner Coating Machine Line	(max) 35—80g/m ²	2750mm	120-140°C	1 blade knife +2 air knife	three rolls soft calender	Distribution VVVF drive, 200/500 kw



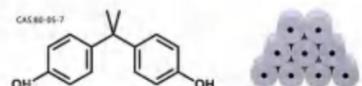
1 Finished Thermal Paper Coating Chemical

TYPE: A+B, TWO COMPONENT
 EFFECTIVE CONSTITUENT: CHEMICAL "A" IS THE DYE, CHEMICAL "B" IS THE COLOR DEVELOPER, FILLER AND OTHER AUXILIARY AGENT.
 PRODUCT APPEARANCE: WHITE PULPINESS LIQUID
 SOLID CONTENT(%): 40+/- AFTER MIXED
 EFFECTIVE SUBSTANCE CONTENT >99.9%
 DENSITY(G/CM3): 1.0-1.2
 VISCOSITY(CPS): <800
 HEALTH HAZARDS: NO
 PACKAGE: 200KG PLASTIC DRUM, PALLET DRUM, OR AGREEMENT PACKAGING
 STORAGE: ABOVE 0°C, FOR ONE YEAR IF NOT MIXED



2 BPA

Chemical name:
 2,2-bis (4-hydroxyphenyl)propane
 Concentration(%) 100
 EC No. 201-245-8



3 BON (2-Naphthyl Benzyl Ether)

Appearance	Purity(By HPLC)	Melting Point	Solubility in acetone, 5g/100ml solution	Residue (800°C×4hr)	Loss On Drying (90°C×2hr)	Partical size 30mesh,98%	Bag height
White Powder	≥99.0%	100-103°C	clear	≤0.1%	≤0.5%	pass	≤1.9m

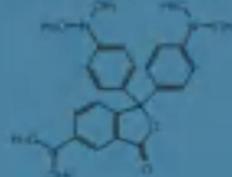
BON

Thermal paper Sensitizer

Purity: 99.5%

4 CVL

3,3-Bis(p-dimethylaminophenyl)-6-dimethylaminophthalide
 Chemical name: 3,3-Bis(p-dimethylaminophenyl)-6-dimethylaminophthalide
 MF: C₂₈H₂₉N₃O₂
 Structure:



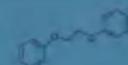
CVL

CAS: 1552-42-7

appearance: white powder
 Fercent: 96% relative mtters (cvl salt or cycol open materials)

5 DPE (1,2-Diphenoxyethane)

MF: C₁₄H₁₄O₂ structure:



CAS: 104-66-5

Appearance	Purity(By HPLC)	Melting Point	Residue (800°C×4hr)	Loss On Drying (90°C×2hr)	Partical size 30mesh,98%	Bag height
White Powder	≥99.0%	96-98°C	≤0.2%	≤0.5%	pass	≤1.9m

DPE

CAS: 104-66-5

Appearance: white crystal
 Insoluble residue: ≤0.2%

6 ODB-2

Anilino-6-(dibutylamino)-3-methylfluoran
 MF: C₃₅H₃₆N₂O₃
 Appearance White or Yellowish granule
 Purity(HPLC)% >99.50
 Melting point(°C) >183.0
 Undissolved substance(%) <0.3
 Ashes(%) <0.2
 Volatile content (%) <0.3

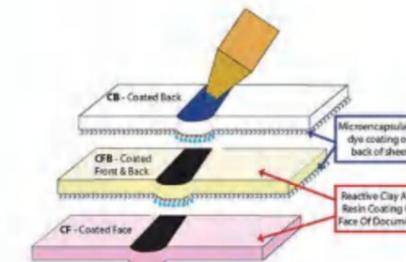
ODD-2

THERMAL PAPER COATING GHEMICALS

CAS: 89331-94-2
 Purity: 99.0%
 Melting point: 182-185
 Loss on drying: ≤0.3%
 Insoluble in toluene: <0.3%

7 MICROCAPSULE BLUE 40% (BLUE IMAGE MICROCAPSULE)

CAS 31959-78-1
 USE OF PRODUCT
 It is a new kind of microcapsule for CCP(Carbonless Copy Paper). It is used to coat CB or CFB in CCP. Color developing at low temperature quick, color bright, developing density high, aging behavior fine



Crushed capsules release dye, that reacts with clay and resin on face of CFB and CF paper, to produce an image where pressure is applied.

8 SBR LATEX

MODEL: SBR-6018H
 EFFECTIVE CONSTITUENT: POLYMER
 PRODUCT APPEARANCE: MILK WHITE, HOMOGENEOUS EMULSION
 COAGULUM CONTENT: ≤0.025%
 SOLID CONTENT (%): 50±1
 EFFECTIVE SUBSTANCE CONTENT: 99%
 DENSITY(g/cm³): 0.95±0.2
 VISCOSITY(CPS): 50-300
 SURFACE TENSION (mN/m): 50-65
 PH: 6.5-7.5
 PACKAGE: 200KG PLASTIC DRUM, PALLET DRUM, OR AGREEMENT PACKAGING
 STORAGE: ABOVE 0°C, FOR one year.



9 RESIN COLOR DEVELOPER

CAS NO 95235-30-6
 Viscosity, mpa.s (25°C) : 200-600
 PH Value : 4.0-6.0
 Zinc Content, % : ≥4.50
 Density : 1.05-1.15



10 FINE KAOLIN CLAY

MODEL: JRX902
 Whiteness : ≥84
 PRODUCT APPEARANCE: white powder
 MAIN CHARACTERISTIC: ACT AS STUFFING, AND IMCREASE THE WHITENESS OF PAPER.
 SOLID CONTENT (%): ≥98
 RESIDUE AFTER 325MESH ≤0.01%
 PARTICLE SIZE(≤2um): 90±1%
 Viscosity concentration (%) : ≥67±1
 Decomposing fallout: <0.01%
 PH: 5-7



11 Caco3

MODEL: JRX901GCC
 Whiteness : ≥98
 PRODUCT APPEARANCE: white powder
 MAIN CHARACTERISTIC: GRINDED THE RAW MATERIALS TO BE LIQUID CaCO₃, BECOME POWDER AFTER DRYING. ACT AS STUFFING, AND INCREASE THE WHITENESS OF PAPER.
 SOLID CONTENT (%): ≥98
 RESIDUE AFTER 45um :≤0.01%
 PARTICLE SIZE(≤2um): ≥90%
 D50 (um) : 0.7
 volatile content: ≤0.2%
 PH: 8-10



12 Dry Sublimation Paper Coation Chemical

MODEL: JRX-01G
 EFFECTIVE CONSTITUENT: HIGH-MOLECULAR POLYMER
 PRODUCT APPEARANCE: WHITE POWDER
 WATER INSOLUBLE IMPURITY: <0.1%
 CONSUMPTION OF PER SQUARE MATER(GSM): 8-10 (dry weight)
 FINISHED COATING VISCOSITY(CPS): 1000-2000
 TRANSFER RATE: 93-95%
 PH: 7-8
 PACKAGE: 25KG COMPOSITE KRAFT PAPER BAG OR CONTAINER BAG, OR AGREEMENT PACKAGING
 STORAGE: COOL AND DRY PLACE, FOR TWO YEARS





13

13 LUBRICATION AGENT

MODEL: SCDL5022
 EFFECTIVE CONSTITUENT: Calcium stearate
 PRODUCT APPEARANCE: Milk color LIQUID
 MAIN CHARACTERISTIC: modify the flowing ability of mixed chemical, and increase the solid content to save unit cost.
 SOLID CONTENT (%): 50±2
 EFFECTIVE SUBSTANCE CONTENT: 50%
 Particle size (0.5-5um): ≥95%
 VISCOSITY(CPS): ≤200
 DOSAGE: 1-5% of total dry weight.
 PH: 9.0-12.0
 PACKAGE: 200KG PLASTIC DRUM, PALLET DRUM, OR AGREEMENT PACKAGING
 STORAGE: 0-35°C, FOR ONE YEAR



14

14 DEFOAMER AGENT

MODEL: JRX680DF
 EFFECTIVE CONSTITUENT: Fatty acid polyether
 PRODUCT APPEARANCE: Milk White LIQUID
 MAIN CHARACTERISTIC: Remove the foam during chemical mixing, decrease the viscosity of mixed chemical, and improve the quality of finished product.
 SOLID CONTENT (%): 30±1
 Density: 0.96-1.00
 VISCOSITY(CPS): 200-1000
 DOSAGE: 0.005%-0.008% of total weight.
 STORAGE: 0-35°C, FOR ONE YEAR



15

15 Dispersing Agent

MODEL: D5040
 EFFECTIVE CONSTITUENT: Acrylic acid sodium dispersing agent
 PRODUCT APPEARANCE: LIGHT YELLOW, TRANSPARENCY LIQUID
 MAIN CHARACTERISTIC: KEEP THE STABILTY OF PIGMENT AND COLOR, TO GET COATING COLOR OF HIGH SOLID CONTENT AND LOW VISCOSITY
 SOLID CONTENT (%): 40±1
 EFFECTIVE SUBSTANCE CONTENT: 99%
 DENSITY(g/cm3): 1.2-1.3
 VISCOSITY(CPS): 200-400
 SOLUBLENESS: FREELY SOLUBLE IN COLD WATER
 PH: 7-8
 PACKAGE: 200KG PLASTIC DRUM, PALLET DRUM, OR AGREEMENT PACKAGING
 STORAGE: ABOVE 4°C, FOR ONE YEAR



16

16 WATER REPELLENT AGENT

EFFECTIVE CONSTITUENT: New type synthetic resin
 PRODUCT APPEARANCE: LIGHT YELLOW, TRANSPARENCY LIQUID
 MAIN CHARACTERISTIC: Improve the wear-resisting strength of paper, improve printability and surface strength
 SOLID CONTENT (%): 40±1
 VISCOSITY(CPS): ≤100
 SOLUBLENESS: FREELY SOLUBLE
 PH: 6-8
 advantages :
 good compatibility with coating chemical, improve the fluidity of coating chemical
 fast curing speed, paper has good water repellent ability
 good ink absorption, surface strength significantly improved, greatly improve the performance of paper printing.
 Suitable for a variety of pH range of coating formulations, widely used.



17

17 Zirconia Ceramic Beads

JRX-95 High-strength Zirconia Ceramic Beads
 RX-95 High-strength Zirconia Ceramic Beads is a kind of high performance ceramic beads which is developed specially for the ultra-fine grinding and dispersing of paper coating materials, oil paint, printing ink, nonmetallic ore industry etc. Its impact strength and wear resistance are close to those of high-purity zirconia ceramics, and the specific gravity is slightly lower, price is relatively low, as soon as this product is introduced, it becomes most popular with many users.
 ommercial name: Zirconia Ceramic Ball
 Descripton: Compound beads used as grinding media
 Composition / information on the ingredients

Component	Weight%
ZrO2	95.7%(roughly)
Y2O3	4.2%(roughly)

СИСТЕМА ХИМИЧЕСКОЙ ПОДГОТОВКИ

Необходимо подготовить базовый химикат и термический химикат для нанесения покрытия.

Существуют различные емкости для приготовления химикатов, смешивания химикатов и т. д.



Система также использует горизонтальную закрытую песочную мельницу. По сравнению с шаровыми мельницами, валковыми мельницами, коллоидными мельницами и другим диспергирующим оборудованием, песочная мельница обладает такими преимуществами, как высокая производительность, равномерное распределение размера частиц, высокая непрерывность производства, низкая стоимость и т. д. Эта серия песочных мельниц может быть изготовлена по индивидуальному заказу взрывозащищенного типа.



Наши услуги:

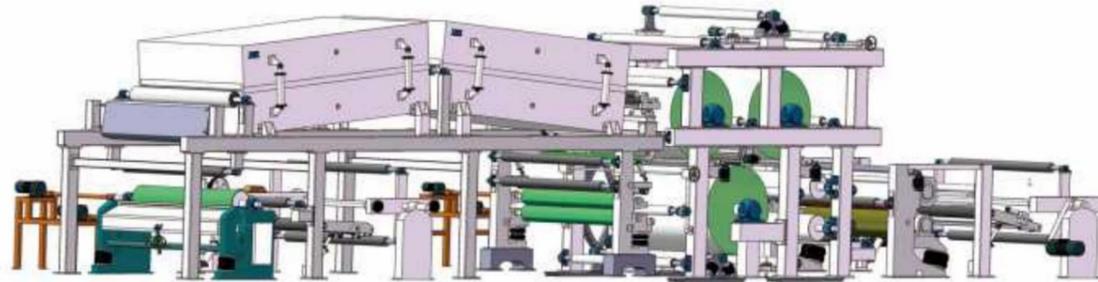
1. Обоснованные рекомендации по выбору оборудования.
2. Предоставление подробного описания и сборочного чертежа, чтобы вы могли лучше понять возможности устройства.
3. Монтаж и наладка оборудования инженерами на месте.
4. Обучение ваших сотрудников.
5. Профессиональное техническое руководство и поддержка на вашем производстве для обеспечения корректной работы устройства.
6. Модернизация и переоснащение оборудования.
7. Мы проведем испытания оборудования в заводском цеху для обеспечения безопасности и качества.
8. Предоставление клиентам рекомендаций по химическим веществам, рецептурам, технологиям и другим вопросам.

Если вы хотите узнать больше, пожалуйста, напишите нам в течение 2 минут. Мы будем рады предоставить вам дополнительную информацию.

С уважением,



ЛИНИЯ ДЛЯ ПОКРЫТИЯ СУБЛИМАЦИОННОЙ БУМАГИ



Рутина

The double workstation shaft-type unwinding → the double roller feeding device
→ air knife coating → hot air circulation → 4 cylinders finishing → horizontal type winding



система размотки

Unwinding unit consists of stand, pneumatic shaft and tension sensor, tension controller (FESTO or SMC), pneumatic brakes and these also constitutes tension automatic control system. It consists of a duplex-reel paper stand and a paper splicer, the stand includes rack, swing arm, rotating worm gear box, safety chucks, air shaft, brake and paper guide rolls. The splicer includes arm, pressing roll, paper cutting knife and guide roll.



Воздушный нож

The device consists of eagle type air knife, breast roll, air knife adjustment, gas separator, collecting tray, high pressure blower and other components. Eagle type air knife: consists of the top and bottom lips and an air knife body. The top and bottom lips are stainless steel, through multi-process precision machining. Its duckbill-shape blade has better coating quality and less spray paint spatter etc. Air knife adjustment device: This device is mainly used to adjust the air knife angle and distance of top to bottom, front to back, by changing the distance between the knife and the breast roller or adjusting the air pressure can adjust the amount of coating.

Технические параметры

Base paper quantitative weight	Design speed	Coating knife quantity	Solid content	Drying methods	Cylinder pressure	Heat medium
35 - 120 g/m ²	100-400m/min	2 set air knife	25 - 35%	hot air circulation drying + cylinder finishing	< 0.4 Mpa	saturated vapor or gas burner

ЛУЧШАЯ ЛИНИЯ МАШИН ДЛЯ ЛАКОВАНИЯ БЕЛОЙ ЛАЙНЕРНОЙ БУМАГИ



Автоматическая перемотка и размотка



календарь

Автоматическое устройство для сращивания

On the top of unwinding part is equipped with automatic splicer device. It is composed by guide rollers, bonding roller device, breaks device, swimming arm devices, control systems and others. Splicing arm in position, guide roller pressure, breaks knife action, stop turning the previous paper roll and a series of connected actions are achieved by automatic control; the entire action is chained with the whole machine. to achieve every parts corresponding automatic action when change paper roll, finish the automatic paper roll continuous. Achieve non-stop for paper roll continuous running, can reduce raw material consumption, improve yields, increase production, improve product quality.

Технические параметры

Coating Weight	Solids Content	Design Speed	Yield Production	Steam heating	Pneumatic control	Oven working temperature
35—60g/m ² □max□	60%□max□	120m/min -400m/min	Min 20 -25T/D(as 22hours, 160g/m ²)	0.5-0.8Mpa	0.6-0.7Mpa	130-150 □

Автоматическая линия для нанесения покрытия на термобумагу

АВТОМАТИЧЕСКАЯ СИСТЕМА РАЗМОТКИ И НАМОТКИ РУЛОНОВ БУМАГИ

It consists of a duplex-reel paper stand and a paper splicer, the stand includes rack, swing arm, rotating worm gear box, safety chucks, air shaft, brake and paper guide rolls. The splicer includes arm, pressing roll, paper cutting knife and guide roll.

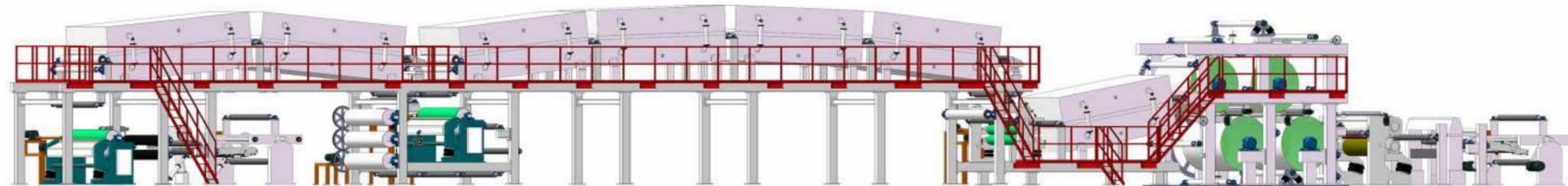
НОЖ С ЛЕЗВИЕМ

It consists of color feeding roller, backing roller, stainless steel SS304 paint tray, coating metering unit, compressed air systems and steel base frame



Установка для нанесения покрытия на лезвие ножа

календарь



Автоматический подмотчик и размотчик

It consists of a duplex-reel paper stand and a paper splicer, the stand includes rack, swing arm, rotating worm gear box, safety chucks, air shaft, brake and paper guide rolls. The splicer includes arm, pressing roll, paper cutting knife and guide roll.



Блок нанесения заднего покрытия

It consists of a duplex-reel paper stand and a paper splicer, the stand includes rack, swing arm, rotating worm gear box, safety chucks, air shaft, brake and paper guide rolls. The splicer includes arm, pressing roll, paper cutting knife and guide roll.



Сушильный цилиндр

Paper out of the oven box goes through the hot cylinder, it will be more flat, the surface smoothness will also be improved, and paper warpage can be corrected.



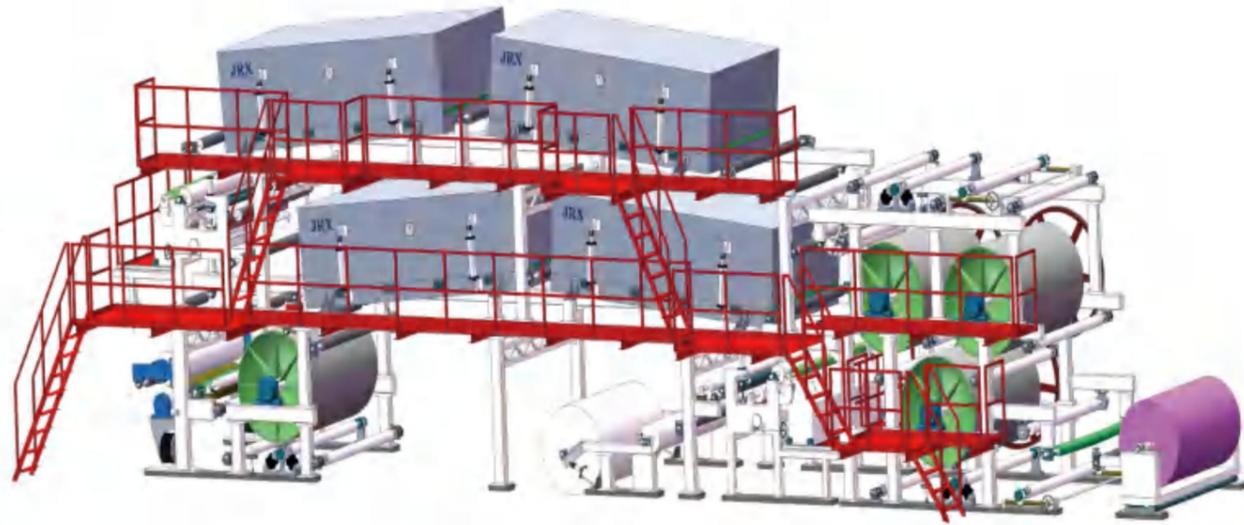
Сушильная печь

The system consists of floatation hot air oven, draught fan, gas burner, ventilation door, control systems and air ducts.

Линия для мелования бумаги NCR (самокопирующая)

Основные характеристики

This machine is the special equipment to produce no carbon required paper, which can realize no carbon required paper double-sided coating at the same time. Especially suitable for CFB no carbon required paper and colorful paper, with high efficiency, low energy consumption, stable performance, low base paper consumption, high yield, etc.



Автоматический подмотчик и размотчик



Установка для нанесения покрытия на лезвие ножа



Установка для нанесения покрытия воздушным ножом Сухая духовка

Automatic paper roll unwinding and winding system
It consists of a duplex-reel paper stand and a paper splicer, the stand includes rack, swing arm, rotating worm gear box, safety chucks, air shaft, brake and paper guide rolls. The splicer includes arm, pressing roll, paper cutting knife and guide roll.

ВОЗДУШНЫЙ НОЖ

It consists of color feeding roller, backing roller, stainless steel SS304 paint tray, coating metering unit, compressed air systems and steel base frame



Сушильный цилиндр



Сухая духовка

Base paper quantitative weight	Design speed	Coating knife quantity	Solid content	Drying methods	Cylinder pressure	Heat medium
35 ~ 120 g/m ²	100-400m/min	2 set air knife	25 ~ 35%	hot air circulation drying + cylinder finishing	< 0.4 Mpa	saturated vapor or gas burner