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 WE WILL DO THE REST!**
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SHANGHAI SINGULARITY IMP & EXP COMPANY LIMITED

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YARN DYEING MACHINE

- Energy-saving and efficient polyester yarn dyeing machine
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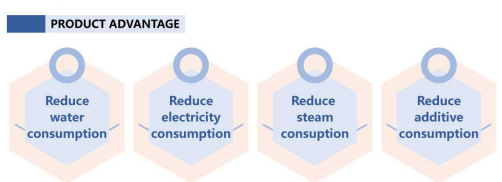
WINDING MACHINE

- Automatic Extractor for Packages
- Pineapple winder for high elastic yarn
- Hank making machine
- Staple fiber pineapple winding machine-Electronically controlled for super fine yarn
- Cone to cone winding machine-for all type of yarn
- Doubling, Spray network winding machine
- Soft/hard Cone Winding Machine
- Auto-changing doubling machine
- Accessories



INTRODUCTION

High temperature and high pressure 1:3 low bath ratio energy-saving bobbin dyeing machine, this machine is the most advanced, the most energy saving, the most environmentally friendly new dyeing machine, completely break the traditional dyeing machine dyeing way. Under the condition of not changing the original dyeing formula, can let the user in the electricity, water, steam, auxiliaries and man-hours to achieve a full range of reduction, and can basically eliminate the color and greatly reduce the cylinder difference. It can bring extremely rapid return for the original investment, recover the investment cost quickly, and achieve higher returns.



NOTICES

This machine is not suitable for dyeing pure cotton and blended fabric containing cotton components, because the bath ratio is small and is built in the heating tube, dyeing cotton is generally 60°C reactive dye, easy to produce the temperature difference between the upper and lower cylinder, so that cotton fabric easy to produce color difference between the upper and lower layers.(color difference due to temperature difference)



YARN DYEING MACHINE
HTHP cone yarn dyeing machine



PRODUCT INTRODUCTION

The type of dyeing machine is dual-purpose both can small bath ratio dyeing and normal internal and external flow dyeing.
Air cushion type or full-filled type.
Application: dyeing, boiling, rinsing and washing treatment to all kinds of Dacron, nylon, acrylic, cotton, wool, linen and mixed fabric cone or cheese.
Also suitable to lace, zipper and zipper belt, elastic belt dyeing, boiler, rinsing, washing treatment.



CONTAIN

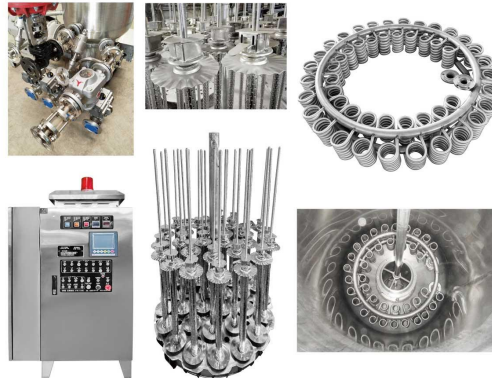
- Master cylinder 1set (see the cylinder configuration)
- Creel 1set (details see the creel configuration, cone creel and cage creel optional)
- Master pump 1set (self-made pipeline mixed flow centrifugal pump, the performance is better than most import pump with same power)
- Dye liquor circulation reverse 1set (including the connected pipe)
- Electric control system 1set (see the electric cabinet configuration)
- Stainless steel pneumatic valve

Technical Specifications

Dyeing machine master material is stainless steel, pressure vessel contact with dye liquor use quality anti-corrosion stainless steel, design and manufacture according to the pressure vessel standard, maximum working temperature 140°C, and maximum working pressure 0.45MPa, configuration of dyeing machine as below

- Cylinder: All the part contact with dye liquor use quality anti-corrosion stainless steel (SUS316L) Thickness according to the dyeing machine size 3mm-10mm
- Master cylinder valves
- Dyeing cylinder safety device
- Circulatory system
- Feeding barrel
- Cone creel
- Single cage creel made by quality anti-corrosion stainless steel material (SUS30408)
- Electric control box and pneumatic box

PRODUCT DETAILS



YARN DYEING MACHINE
Nylon dyeing machine



Main configuration

1. cylinder block material 316L.
2. HG-310 computer is used
3. equipped with automatic drainage system
4. open cover safety protection system, there is micro pressure in the cylinder, can not open the cover.
5. built-in spring type heating tube.
6. automatic water level control system.
7. automatic cover opening device.
8. stainless steel frame.

The device consists of the following parts (Manual opening for QXB-50 or below)

1. One set of main cylinder body.
2. one set of yarn frame.
3. One electric control box.
Equipped with HG310A English microcomputer, stainless steel case control box. Frequency converter (motor over 22KW with frequency converter), fully functional PLC independently developed. Yadete solenoid valve.
Due to the high humidity and high temperature in the working environment of the converter on the dyeing machine, the electrical components are easy to be damaged, which requires the support of after-sales service.
The frequency converter supplied by our company is a special frequency converter for dyeing machine. It has been specially designed for dust proof and moisture proof. The warranty period is 18 months. However due to different requirements of customers, the frequency converter can be provided by customers independently, and the price of special frequency converter for dyeing machine can be deducted from the base price.
All the control functions of dyeing machine are in the PLC independently developed by our company. The combination of PLC and Huaqiao 310A computer can realize full automatic control. And PLC is open, some customers' special control requirements can also be written into PLC.
4. the valve is complete (single water inlet, single drainage).
5. The valves below Dg50 are stainless steel pneumatic right Angle valves, and the valves above Dg50 are stainless steel pneumatic ball valves.
5. The main pump and the connecting pipeline. (In-machine connection pipe)

Automatic feeding device

Dye can be automatically added into the master cylinder after homogenization in the chemical barrel to reduce labor intensity and improve work efficiency. And flexible feeding.
Yarns such as dyed cotton need to be fed several times, with automatic feeding device.
The combination of bucket water level pressure sensor and PLC can realize the full automatic control of bucket water level.

1. feeding barrel barrel body.
2. feeding pump.
3. stirring motor. (QXB60 below the non-stirring motor, dye stirring feed pump recoil mixing function mixing)





YARN DYEING MACHINE
Full-automatic YARN Sample dyeing machine

Usage

Polyester sewing thread, polyester and poly amide bundy thread, polyester low elastic yarn, polyester single yarn, polyester and poly amide high elastic yarn, acrylic fiber, wool (cashmere) bobbin yarn

Main configuration

- Cylinder body material 316L, cylinder body diameter ϕ 150.
- Equipped with new YICHENG N7 or Varco HG-9906 automatic computer
- Equipped with automatic drainage system.
- open cover safety protection system, there is micro pressure in the cylinder, can not open the cover.
- Attached with closing tank.
- automatic water level control system.
- SUS304 stainless steel rack.

Technical data

- Max. working temperature: 145°C
- Max. pressure: 0.45Mpa
- Cylinder size for 1 cone of 1.25kg: ϕ 180xH400
- Cylinder size for 2-3 cones of each 500g cone of 1.25kg: ϕ 150xH600
- Main pump power: 0.55kw
- Mixer power: 0.55kw
- Diameter of mixer: ϕ 108xH200
- Heating methos: Electricity or steam (Electric heating power 4kw)



YARN DYEING MACHINE
Semi automatic sample dyeing machine

Sample dyeing machine

INTRODUCTION

This series low bath ratio sample dyeing machine suitable for polyester, cotton, nylon, wool, fiber and all kinds of blended fabric cone dyeing, boiling, bleaching and washing process. It's auxiliary product for QX series dyeing machine and GR204A series dyeing machine, sample dyeing 1000g cone, and the ratio can be same with normal machine, sample formula color reproducibility accuracy can be reached above 95% compare with the normal dyeing machine. And the bobbins are the same with big machine, no need to purchase special bobbin or special soft-cone winder. This low bath ratio sample dyeing machine also can dye small amount fabrics. We can customize the models to match customer's request

P1+P8



YARN DYEING MACHINE
Normal temperature sample dyeing machine

Technical performance and standard configuration

1. The cylinder body and surface are made of SUS304L mirror stainless steel plate, with beautiful appearance and reasonable structure.
2. Sample size: 12/24 cups.
3. Cup capacity: plastic cup 250cc, stainless steel cup 300cc.
4. Operating temperature: room temperature to 99°C, temperature error: \pm 1°C, with high-performance programmable computer temperature control system, can be programmed to store ten processes, each process programmable ten steps; The whole process process can be controlled automatically. Equipped with PT100 temperature probe produced by DTC, the temperature measurement accuracy is high and the service life is long.
5. Timer working range: 0-99 minutes.
6. Bath ratio: 1:5-1:20.
7. Drive motor power: 380V, 180W.
8. Rotor speed: 40 RPM.
9. Power supply: AC380V/50HZ
10. Heating power: 3x3KW, 380V.
11. Heating medium: water.



YARN DYEING MACHINE
Infrared HTHP cup sample dyeing machine

Features and Configuration

Infrared high temperature dyeing sample machine completely simulate and reproduce the field production mode. The machine with features of safe, efficient, friendly-environment, consumption reduction, energy-saving. Two standard capacity available: * 12 cups * 24 cups



TECHNICAL DETAILS

- Material: The case made by stainless steel powder spray, nice appearance, internal made by SUS304 stainless steel
- Structure: Combined the advantage of normal infrared and traditional glycerin type sample machine, the machine door uses high temperature resistance sealing rubber strip, Drum with heat preservation function, temperature will not reduction when put the cup next time.
- Temperature sensor: With heating curve, precision of temperature probe \pm 0.1°C
- Working temperature: 20-140°C
- Rate of temperature rise and fall: 0.1°C-9.9°C/min
- Bath ratio: 1 : 5-1 : 30
- Cooling method: Forced air cooling by convection
- Number of dyeing cup: 12pcs and 24pcs of dyeing cup optional
- Material of dyeing cup: Made by quality SUS316 stainless steel material
- Capacity of dyeing cup: Common configuration 150CC, 250CC, 450CC and 500CC
- Computer: Micro-computer control (Chinese LCD personal computer), 100kinds of technologies programmable, monitoring sample storehouse working condition in real time.
- Drive motor: Adopt Taiwan Delta transducer control, 250W motor drive cup
- Working condition: 12pcs or 24pcs dyeing cup, 360°rotlover inside the machine, 0-50rpm, evenness degree of dyeing.
- Heat recovery method: Configure with infrared heating tube, electric heating and illuminate cup cage and dyeing cup, small power, small temperature difference, no loss, good heat preservation, saving electricity, no pollution and noise.
- Configuration: Choose UCF206 the best mounted bearing in China
- Electrical element: imported from Siemens and Schneider
- Heat power : Adopt one-side Nano-coating infrared lamp 1
- 24cups infrared machine is 6pcs 800W, 2series connection 2.4kw
- Power source : AC380V 50HZ (if need AC220V please inform customized. 12 cup is 2.7kw , 24 cup is 3kw)
- Outline size : 12cups: front700mm, side 750mm, height750mm , 24cups: front800mm, side 750mm, height750mm
- Weight : 12 cups:120kg , 24 cups:136kg

P9+P10



INDUSTRY HYDRO-EXTRACTOR
Automatic frequency
fabric dewaterer



Characteristics

1. Applicable for yarn woven fabrics, knitted fabrics, garments. Tow and dehydrated in the textile industry.
2. High quality stainless steel inner, outer cage, beautiful and strong, long service life.
3. Ultra hydrostatic equilibrium, first class working environment. This machine adopts the sliding bearings (ball type) structure. Motor specially designed in dewatering machine center. So even at a high speed when no noise or vibration.
4. Adopts advanced frequency conversion technology, adjustable speed, energy saving this machine from the start, speed slowly automatically from the 1 or PM to the high-speed energy consumption will remain in the lowest level.
5. Adopts frequency automatic brake abandon the mechanical brake. Thus greatly reduce mechanical repair rate. The other option: pneumatic open cover (open cover automatically closing cover parking, automatic operation, free debugging), make the operation more safe and convenient.
6. The other option: can be matched for weaving knitting cloth dewatering and design of full stainless steel important falling frame, operation more convenient

Technical parameters

Model	Rotating cage inner Dia. (mm)	Volume /kg (wet-weight)	Height of rotating cage (mm)	Power (kw)	Rotate speed (r/min)	Dimension (mm)
800	800	80	380	4	750-960 adjustable	1380 x 1400 x 960
1000	1000	100	380	5.5	750-960 adjustable	1560 x 1600 x 1000
1200	1200	150	450	7.5	750adjustable	1700 x 1750 x 1000
1260	1260	200	550	11	750adjustable	1800 x 1850 x 1100
1500	1500	500	700	11	600-750adjustable	2100 x 2150 x 1300
1800	1800	800	850	15	550-600adjustable	2300 x 2350 x 1550
2000	2000	1000	900	18.5	550adjustable	2400 x 2450 x 1600
2200	2200	1100	900	22	550adjustable	2500 x 2550 x 1600
2400	2400	1200	900	30	550adjustable	2650 x 2700 x 1600



INDUSTRY HYDRO-EXTRACTOR
Frequency loose hair
dewaterer

Characteristics

1. Type BC hair dewatering for the company development and create a new generation of dewatering machine. This machine is suitable for loose wool, cotton, textile, fiber shaped objects, dehydration, the machine adopts frequency control, and dynamic balance technology for the manufacture of direct, drive motor.
2. Loose wool dewatering machine is the biggest advantage of compact structure, large capacity, small energy consumption, disposable cage type dewatering, greatly saves the manual loading and unloading and other costs of human resources, full automatic, timing, save manpower, electricity and repair costs to the users.
3. The size of manufacturing hair dryer is customized according to customer VAT actual size.



PG-PP2



INDUSTRY HYDRO-EXTRACTOR
Three column
automatic frequency hank dewatering

Characteristics

Compared with the ordinary handbrake dewatering machine, frequency drift in frequency with dehydration advantages of automatic control free of mechanical brake, greatly reduce the mechanical repair rate. Automatic control system within meter is advanced and reliable control, automatic timing, automatic braking speed can be set according to the need to choose, more power.

Technical parameters

Model	Rotating cage inner Dia. (mm)	Volume /kg (wet-weight)	Power (kw)	Rotate speed (r/min)	Dimension (mm)
300	300	10	3.7	1200	450 x 550 x 450
450	450	20	3.7	1100	600 x 700 x 550
600	600	50	3.7	1000	800 x 900 x 650
800	800	80	5.5	900	1450 x 1450 x 800
1000	1000	100	7.5	800	1600 x 1600 x 900
1200	1200	150	7.5	720	1700 x 1700 x 950
1200(weight)	1200(weight)	160	11	720	1700 x 1750 x 950
1350	1350	250	11	700	2050 x 2050 x 1050
1500	1500	500	15	700	2100 x 2100 x 1150



INDUSTRY HYDRO-EXTRACTOR
Common (light) hank dewaterer/common (Heavy) hank dewaterer

Characteristics

The main structure of the three foot type dewatering machine is basically the same, namely the chassis external main shaft shell and is arranged on the chassis assembly and drum were suspended by the three booms. In the spherical seat only three foot above the set of the buffer spring the kind of support method can make the drum in the non-uniform charging and in an unbalanced state can automatically adjust the power load, reduce the spindle and bearings dewatering machine by the motor through a centrifugal clutch (the initial round of V-belt drive) dynamic. Due to the use of a centrifugal clutch, so that the smooth starting and the overload protection of the motor.



Technical parameters

Model	Rotating cage inner Dia. (mm)	Volume /kg (wet-weight)	Power (kw)	Rotate speed (r/min)	Dimension (mm)
300	300	10	3.7	1500	450 x 550 x 450
450	450	20	1.5	1300	600 x 700 x 550
600	600	50	3	1100	800 x 900 x 650
800	800	80	5.5	960	1450 x 1500 x 800
1000	1000	100	7.5	900	1600 x 1700 x 900
1200	1200	150	7.5	720	1700 x 1800 x 950
1200(weight)	1200	160	11	800	1750 x 1850 x 950

PG-PP1



INDUSTRY HYDRO-EXTRACTOR Automatic cone yarn dehydrator



Characteristics

1. High-quality stainless steel inn and out cage, long life.
2. Large capacity, high dehydration rate, low-power.
3. Reliable automated system using advanced frequency control, automatic time count, automatic brake, rotating speed could be set in advance.
4. Machine lamp switch protection device to ensure the safe operation of the body and the body life.
5. Automatic frequency control avoidance of mechanical brakes, greatly reducing the rate of mechanical maintenance.
6. Super quiet balancing, the first class working environment

Technical parameters

Model	Rotating cage inner Dia. (mm)	Cage number (pcs)	Power (kw)	Rotate speed (r/min)	Dimension (mm)
800	800	10-20	4	750-960 adjustable	1450 x 1500 x 950
1000	1000	24-36	5.5	750-960 adjustable	1500 x 1600 x 1000
1200	1200	51-72 (double row)	7.5	750 adjustable	1700 x 1850 x 1200
1260	1260	54-72-108 (double row)	7.5-11	750 adjustable	1750 x 1850 x 1200
1380	1380	80-120 (double row)	15	750 adjustable	1950 x 2100 x 1200
1500	1500	88-132 (double row)	15	750 adjustable	2100 x 2150 x 1300



WINDING MACHINE Automatic Extractor for Packages



Characteristics

1. Specially designed hydro extractor for packages meets the major needs in yarn package dye houses.
2. The driving motor is controlled by inverter with its separative factors adjustable and braking adaptable according to the load. All mechanical braking systems are eliminated and therefore excluding eventual maintenance works.
3. The machine is characterized by the double and automatic interchangeable material carriers for packages which is controlled by advanced PLC controller and imposes a constant and regular production rate according to the type of yarn. While one material carrier for packages is inside the hydro extractor, a second material carrier permits an operator to carry out, in an easy way, all the unloading and loading of packages, thus preparing the machine for a successive production cycle.
4. The machine lifting and whirrig system adopts the hydraulic control for automatic orientation with precise safety.
5. The rotating basket is equipped with housings for the accommodation of packages during hydro extraction while the spindles of the package carrier are adopted according to the needs of the client. And the speed of hydro extractor can be adjusted. Thus assure a mild treatment to the yarn and avoid the deformation of packages further to breakage of the internal tubes.
6. The inner basket and the body of the machine are constructed in high quality stainless steel for long serve time.

Advantages of this machine

1. The inner cage diameter is 900mm, the line length is large, and the four-stage motor is 1455 RPM, the speed is fast, the dehydration is more dry, and the drying time can be shortened.
2. single motor 7.5kW, energy saving.
3. a dehydration of 60 bobbin yarn, continuous dehydration, high output
4. loading and unloading cone operation is convenient, reduce the labor intensity of dehydration workers, save time and labor, improve efficiency, dehydration workers especially like to use.
5. can be equipped with manipulator operation, fully into the era of intelligence.

Technical data

Model	HP-9005
Nos. of spindles	12 pcs
Max. Dia. of package	Φ170mm or according to the customer's requirements
Nos. of packages per spindle (Height of package 120mm)	5 pcs
Nos. of packages per batch	60 pcs
Speed of hydro extractor	1200-1500rpm
Power installed	7.5kw
Dimensions	Machine closed: 2930*1680*2290mm Machine working: 2930*2720*3260mm



INDUSTRY HYDRO-EXTRACTOR Dryer for both polyester & cotton

Characteristics

This drying machine is energy saving hot air dryer, cold air preheated first from roof hot wet air and heating, saving steam

The basic machine contains below configuration:

Designed drying time: 1-1.5 hours. Cotton bobbin 4.5-5 hours

Note: the temperature of polyester bobbin can be set to 110°C, the temperature of cotton bobbin can only be set to 80°C-90°C

1. Box, fan

2. Each set of dryers equipped with a set of stainless-steel cone dolly.

consider of our putout it will be two sets cone dolly equipped

3. Equipped with HG310A Chinese-English microcomputer, stainless steel case automatic control box.

4. Pipeline, steam heating valve. (Dg32 membrane valve)

Technical parameters

Capacity	Model	Equipped dolly quantity	Fan power	Overall size and weight
448pcs	QDHGJ-2	2dolly Z8core rod+8layer+2.24pcs*2	7.5kw*2sets	L2.2m*W2.4m*H2.4m3500kg

Designed drying time: 1-1.5hours and drying temperature can set to 110°C



PIS+PIB



WINDING MACHINE Pineapple winder for high elastic yarn

Due to the different types of yarns and the actual needs of customers, certain oil or wax agents should be applied to the yarn during the winding process. The purpose is to eliminate the static electricity caused by friction and other factors in the process of fiber unwinding and winding, and to prevent the generation of filaments, filaments, flying defects make the yarn smooth and increase the holding power of the fiber. Accurate winding and tension control with oil/wax loading set, perfect to meet the requirements of the subsequent process. Push rod type stepping gate device and electronic tension sensor are precisely matched with feeding roller to control and adjust yarn tension on line all the time. The tension is not bobbin tension, so that the yarn tension is the most accurate control within the set range.



TECHNICAL PARAMETERS

Total controlling panel	computer digital processing terminal
Winding type	precision winding/digital winding
Machine speed	1200/min (technology speed depend on technological parameter)
Winding form	vertical/bevel edge. The amplitude can be adjusted at will
Traverse length	25-260mm, stepless arbitrary setting
Packaging dia.	Max. 280mm
Packaging weight	max. 6kgs (depend on the yarns type)
Packaging weight/Feeding yarn packaging dia.	Max. 340mm
Application yarns	acrylic fibers, polyester, staple fiber, single filament yarn, filament yarn, cotton, linen, stretch yarn and elastic yarn
Layout	single side machine
Spindle/section	5 spindles
Min./max. Spindles	5/60 heads
Spindle pitch	360mm
Driving	single spindle dependent driving
Power consumption	100W/spindle
Oil/waxing device	single spindle stepper motor, speed can adjustable
Auxiliary device	Electronic yarn clearer, Spray network
Overall dimensions	(L*W*H)mm 1820*710*1430

PIS+PIB



WINDING MACHINE
Hank making Machine



Hanking machine/Cone to hank winding New hanking technology will replace the old hanking technology. High efficiency, low consumption, easily dyed, continuously unwinding, no cottony. New type hanking machine solve all problems which caused by old technology.

TECHNICAL PARAMETERS

Type of winding	Precision winding/electronic winding
Speed	Max.1500 m/min (process speed depends on process parameter)
Package shape	Tubular or skein shape hank yarn
Traverse length	30-260mm
Package diameter	220-450mm
Package weight	Max.2kg (depends on the thickness of the yarn)
Supply package diameter	Up to 300mm
Yarn	High and low flexibility polyester or nylon.Staple yarn, processed filament yarn, monofilament
Layout	Single side
No. of Each section	4 spindles
Min/max no. of spindles	4/28 spindles
Gauge	500mm
Drive	Individual
Install power	500w
Power consumption	200w
Size (L*H*W)	2050*800*1700mm



WINDING MACHINE
Staple fiber pineapple winding machine-Electronically controlled for super fine yarn

Upper unwinding digital winding machine

The machine is mounted on the active unwinding mechanism, and the telescopic yarn stand is equipped with pneumatic lifting device, which is convenient for operators to operate and relieve the labor intensity of operators greatly improves production efficiency. This machine also has the function of winding polyesters, so it is a machine can wind both nylon and polyester.

TECHNICAL PARAMETERS

Total controlling	panel computer digital processing terminal
Winding type	precision winding/digital winding
Machine speed	1200/min (technology speed depend on technological parameter)
Winding form	vertical/bevel edge.The amplitude can be adjusted at will
Traverse length	25-260mm,step-less arbitrary setting
Packaging dia.	Max.280mm
Packaging weight	max. 6kgs(depend on the yarns type)
Feeding yarn packaging dia.	Max. 240mm
Application yarns	acrylic fibers,polyester, staple fiber,single filament yarn, filament yarn, cotton, linen,stretch yarn and elastic yarn
Layout	single side machine
Spindle	section 5 spindles
Min./max.	Spindles 5/60 heads
Spindle pitch	360mm
Driving single	spindle dependent driving
Power consumption	140W/spindle
Tension device	mechanical and electronic tension
Suitable for	unwinding hank telescopic frame, fixed wire frame
Winding bobbin	bobbin / cone
The way place the yarn	stand upper horizontal type
Overall dimensions	(L*W*H)mm 1900*710*1600

P18-P20



WINDING MACHINE
Cone to cone winding machine-for all type of yarn



Due to the different types of yarns and the actual needs of customers, certain oil or wax agents should be applied to the yarn during the winding process.The purpose is to eliminate the static electricity caused by friction and other factors in the process of fiber unwinding and winding, and to prevent the generation of filaments, filaments.Flying defects make the yarn smooth and increase the holding power of the fiber.Accurate winding and tension control with oil/wax loading set, perfect to meet the requirements of the subsequent process. Push rod type stepping gate device and electronic tension sensor are precisely matched with feeding roller to control and adjust yarn tension on line all the time.The tension is not affected by the variation of feeding bobbin tension, so that the yarn tension is the most accurate control within the set range.



TECHNOLOGY PARAMETERS

Total controlling panel	computer digital processing terminal
Winding type	precision winding/digital winding
Machine speed	1200/min (technology speed depend on technological parameter)
Winding form	vertical/bevel edge.The amplitude can be adjusted at will
Traverse length	25-260mm,stepless arbitrary setting
Packaging dia.	Max.280mm
Packaging weight	max. 6kgs(depend on the yarns type)
Feeding yarn packaging dia.	Max. 340mm
Application yarns	acrylic fibers,polyester, staple fiber,single filament yarn, filament yarn,cotton, linen,stretch yarn and elastic yarn
Layout	single side machine
Spindle/section	5 spindles
Min./max. Spindles	5/60 heads
Spindle pitch	360mm
Driving single spindle	spindle dependent driving
Power consumption	100W/spindle
Oil/waxing device	single spindle stepper motor, speed can adjustable
Auxiliary device	Electronic yarn clearer.Spray network
Overall dimensions (L*W*H)mm	1820*710*1430



WINDING MACHINE
Doubling, Spray network winding machine

This machine breaks through the traditional yarn doubling process, each single yarn is equipped with independent tension control device, through network nozzle, electron The tension device and the yarn breaking cutter combine the fiber yarns with different characteristics.



TECHNOLOGY PARAMETERS

Total controlling panel	computer digital processing terminal
Winding type	precision winding/digital winding
Machine speed	1200/min (technology speed depend on technological parameter)
Winding form	vertical/bevel edge.The amplitude can be adjusted at will
Traverse length	25-260mm,stepless arbitrary setting
Packaging dia.	Max.280mm
Packaging weight	max. 6kgs(depend on the yarns type)
Feeding yarn packaging dia.	Max. 240mm
Application yarns	acrylic fibers,polyester, staple fiber,single filament yarn, filament yarn,cotton, linen,stretch yarn and elastic yarn
Layout single	single side machine
Spindle/section	5 spindles
Min./max. Spindles	5/60 heads
Spindle pitch	360mm
Driving single spindle	dependent driving
Power consumption	100W/spindle
Doubling yarns	max. 3 yarns
Tension device	mechanical and electronic tension
Winding bobbin	bobbin or cone
Overall dimensions (L*W*H)mm	1820*710*1430

P21-P22



WINDING MACHINE
Soft/hard cone winding machine



High speed drum winding machine is used for production of hard bobbin and soft (dyed) bobbin for knitting machine, shuttle loom, warping machine, hosiery machine, warp knitting machine and circular machine. The winding speed of the machine (the speed of the tank) can be automatically controlled by the computer, up to 1100m/min. The radial anti-stack device is easy to install and control. Advanced yarn cleaning and tension mechanism with sensitive photo-electric yarn detection to avoid yarn knot winding, accurate and sensitive length (weighing) device to ensure uniform winding length (weight). The electric rotating waxing device and the rotary self-cleaning yarn tension device minimize the yarn friction and satisfy the waxing amount and the uniformity of wax.

TECHNICAL PARAMETERS

Type	double side machine
Machine speed	1100m/min(technology speed depend on technological parameter)
Packaging dia.	Max. 290mm
Suitable for yarns	cotton,wool,ramie, silk and chemical fibre yarn
Spindle/section	12heads
Min./max. Spindles	12/120heads
Spindle pitch	331mm(different cone different pitch)
Drive	single spindle independent drive
Power	40W/head
Winding cone	bobbin or cone
Motor type	AC or DC motor
Overall dimension	2100*950*1500mm



WINDING MACHINE
Auto-changing doubling machine



This machine breaks through the traditional yarn blending process, and each single yarn is equipped with an independent tension control device, which rotates through a network nozzle to the self-cleaning yarn tension device and the yarn breaking cutter combine the fibers with different characteristics.

TECHNOLOGY PARAMETERS

Type	double side machine
Machine speed	1000m/min(technology speed depend on technological parameter)
Packaging dia.	Max. 290mm
Feeding yarn cone	max.280mm
Suitable for yarns	Acrylic fiber, polyester, staple fiber, single filament, filament, cotton, hemp, elastic yarn and elastic yarn
Spindle/section	12heads
Min./max. Spindles	12/108heads
Spindle pitch	331mm(different cone different pitch)
Drive single	spindle independent drive
Power	60W/head
Winding cone	bobbin or cone
Doubling yarns	max. 3 yarn
Motor type	DC motor
Tension device	mechanical tension
Overall dimension mm	1858*1150*1600mm

PC1=PC4



WINDING MACHINE
Accessory



SS DYING BOBBIN

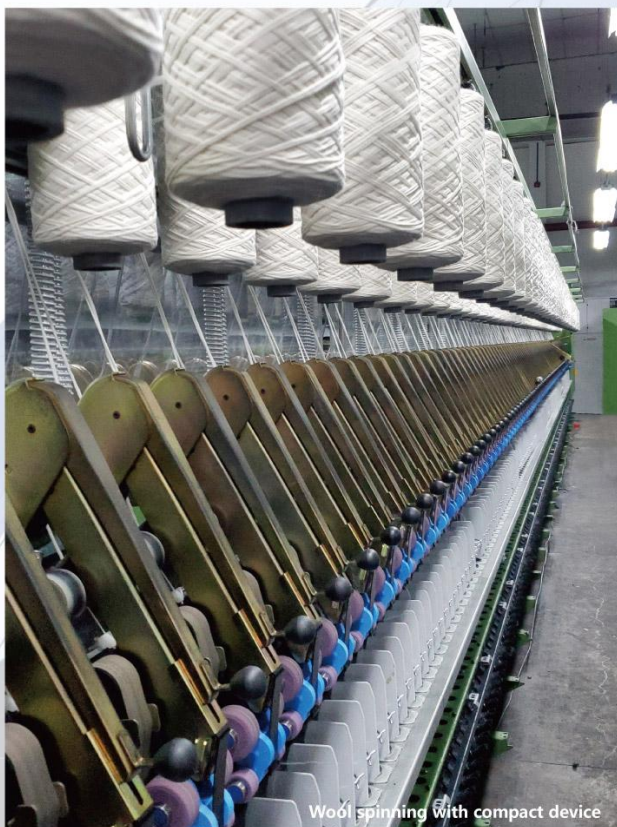
High quality stainless steel, use 304 or 316 stainless steel size according to customer's needful, shape, thickness can be customized.



High quality stainless steel, use 304 or 316 stainless steel size according to customer's needful, shape, thickness can be customized.

PC5=PC6

COMPACT SPINNING TRANSFORMATION



Wool spinning with compact device



Ring frame compact device



Compact modification



Ring frame compact device

SHANGHAI SINGULARITY IMP & EXP CO., LTD.



Compact spinning transformation



Compact spinning principle

The purpose of compact spinning is to arrange the fibers in a completely parallel and close position thus eliminate the spinning triangle. So this close and parallel arrangement of fibers before twisting can improve yarn structure, mechanical & physical properties and yarn strength. In short, compact spinning is to compact the yarn fibers from front top roller output point.

Our compact device is to make the fibers close arrangement from yarn nip point (front top roller) to twisting end by erecting device like negative pressure tube, mesh apron and gearbox, which can eliminate the spinning triangle.

Compact Spinning Advantages

- Dramatically reduced hairiness: Uster H value up to 30% Zweigle S3 up to 80%
- Greatly improved strength: 10-20% higher
- Lower yarn unevenness and lower IPI values: up to 35%
- Higher elongation: by 10 to 15%
- With lower twist (up to 10%) for same yarn strength productivity is increased
- End breakage rate reduced by up to 60% improving machine efficiency (same speed & twist)
- Lesser fly generation assists in better working condition Increased winding speeds
- One-ply compact yarn can replace the conventional two-ply yarn
- The warping & knitting machine performance increased by 10-15% due to higher strength;
- The sizing chemical consumption reduces due to less numbers of protruding fibers;
- Less hairiness loom efficiency increase and reduced fly generation;
- In finished products, less pilling tendency, better touch , luster of fabric
- Dye liquor absorption improved due to low yarn twist, less dye liquor (up to 5%) required
- Raw material saving – lesser comber noil up to 6%



Compact device on wool spinning



Compact roller



Compact



Compact device

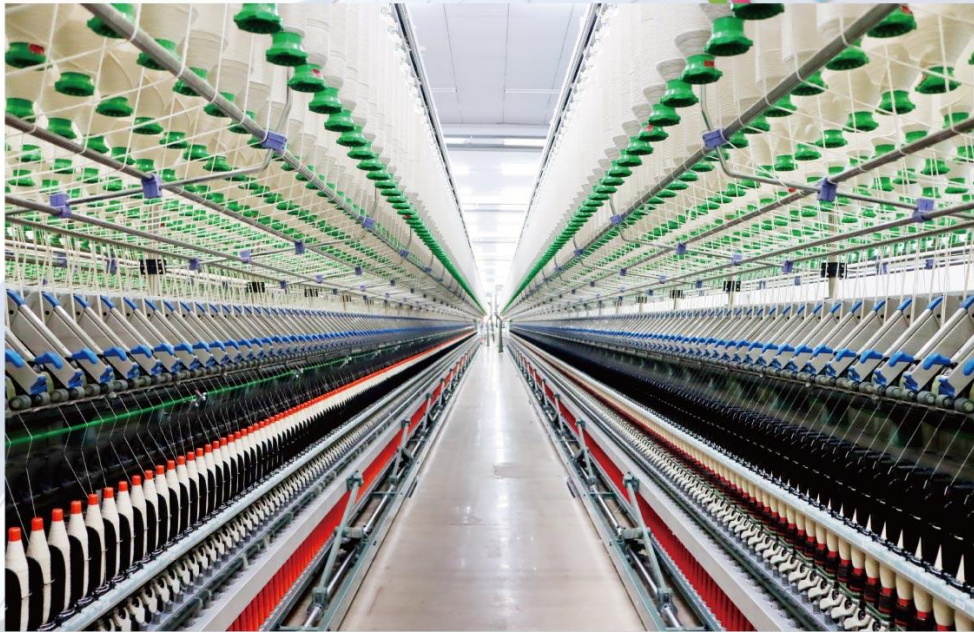


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COTTON SPINNING FRAME SINGLE SPINDLE MONITORING SYSTEM



SHANGHAI SINGULARITY IMP & EXP CO., LTD.



Cotton spinning frame single spindle monitoring system



Industry background

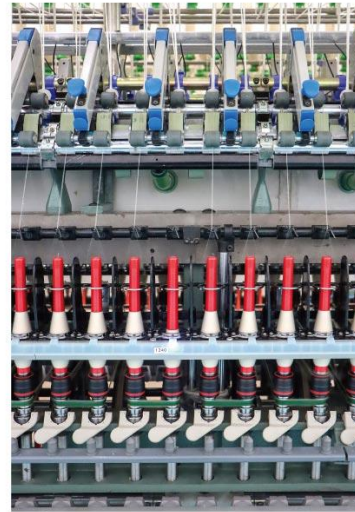
The spinning process is the key process of spinning factory, with many management details, the real-time management is effective or not, the main intuitionistic data from human statistics, therefore, how to find and reduce the problems in time is an important solution to spinning management. 25% ~ 35% of breaks in spinning are caused by a certain proportion of backward spindles. The traditional way to solve the problem is to find the fault spindle position by means of worker traveling inspection, mechanic's inspection and tester's random check, therefore, the yarn break monitoring and roving stop system can solve the details described above.

In recent years, rising labor costs and a shortage of human resources to be one of the most important painful point in textile enterprise development, the application of automation, intelligent spinning equipment can effectively help textile enterprises to solve labor, low production efficiency and product quality instability, has become the new trend of the development of textile industry.

1. Single spindle photoelectric LED indication: Provide Quick Guide for workers and mechanics to find breaks/weak twist spindle position and avoid invalid traveling;
2. Digital display: convenient for worker and mechanic to find the number of breaks and weak-twist spindles (B for breaks/E for weak twist, rolling display)
3. Roving stop feeding system: stop roving supply when breaks are found, stop feeding devices work within 2 -3 seconds after breaks, convenient for yarn piecing and reset, short time roving re-feeding.

Advantage

- Reduce useless patrolling, improve working efficiency, reduce labor intensity.
- Reduce roving waste and recycle rate.
- Reduce roller winding and reduce equipment consumption.
- Reduce empty spinning spindles and improve machine output.
- Reduce weak twist spindles and ensure yarn strength.
- Reduce fluff pollution and yarn breaking hairiness.



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AIR SYSTEM



Drawing workshop



Chemical yarn workshop

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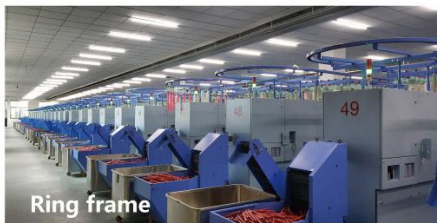


We are specializes in the professional



Production of dust removal equipment, air washers, and ventilating devices for textile mills. Texauto automatic control system is a smart software package by us for the textile air-conditioner system, which reaches the advanced international level. The Texauto system is able to control the humidity extremely accurately and conserve energy effectively at the same time. We boasts its rich experience in the dust removing for the textile air-conditioner, a brilliant research and development team, and efficient equipment, all of which have made us a veteran in processing large air conditioning system. We provides clients with textile air-conditioner system, refrigeration system, duct system, and installation as a turn-key project.

We stands out in the field of textile air-conditioner dust removing, has always devoted itself in pushing the skill development in the textile air-conditioner industry. Till now, we have been one of the most remarkable Chinese companies in this industry with core competitiveness, providing products with international standard and competitive price.



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INTELLIGENT BEAM STACKER AND MATERIAL HANDLING SYSTEM



SHANGHAI SINGULARITY IMP & EXP CO., LTD.



Intelligent beam stacker and material handling system

We specialize in providing all kinds of raw material handling tools and weaving/warp shaft storage for textile mills

Application

The equipment mainly used to storage various warp beam, ball warp beam and fabric roll. Suitable for various textile factories, convenient storage, easy operation, effectively saving time and space

Product superiority

1. Professional and high-level design team, designing as per customer's site, more practical and economical.
2. Adopt German advanced technology, easy operation, improve work efficiency.
3. Synchronous motor drive, improves storage capacity, stress uniform, and ensure service life.
4. Variable frequency speed control, reduce inertia, stable running.
5. Network remote management, easy to read storage information, efficiently manage factory storage data, simply scan code backup, change manual operation, reduce errors, improve efficiency(optional)
6. Use high quality steel as structure material, sturdy and durable;
7. Surface spraying plastics treatment, nice and environment-friendly;
8. Guard bar design and touch sensor, humanization and safe;
9. New type lift platform, stabilize and easy operate;
10. Customized chain sturdy and durable.



Design reference

Model of beams	All kinds of weaving beam, loom beam, ball log, fabric rolls
Weight of full loaded	300-2500kg
Loading capacity	30-150numbers
Special request	In 2,4,6 layers, by single row, double row
Machine weight	Accordingly

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FULL CNC HEAD-STOCK TRANSFORMATION & AUTOMATIC COLLECTIVE DOFFING DEVICE



SHANGHAI SINGULARITY IMP & EXP CO., LTD.



Full CNC head-stock transformation & Automatic collective doffing device

Product Features

The whole CNC head-stock is the front, middle and rear rollers, the steel collar plate lifting with a servo direct drive, the main motor with frequency converter drive, modify the process as long as the touch screen setting modification can, no longer need to replace the gear. It is an intelligent spinning system integrating slub yarn, colored yarn, variable count and variable twist and electronic lifting. All process changes are operated on the display screen without changing any process gear. Simple and convenient operation, high efficiency and energy saving.

And the automatic collective doffing device solves the problem of automatic doffing, automatic managing and automatic full tube conveying in spinning process. Reduce labor, reduce labor intensity, improve the degree of spinning automation, improve labor productivity, reduce product costs.



Product Advantage of CNC head-stock transformation

The system can realize computer network control, real-time monitoring of spinning machine working status, real-time statistics of output, process parameters and other management data, automatically generate production reports and analysis, convenient for enterprise management, and can be connected with mobile phone APP software, convenient for production workers to deal with faults and management personnel real-time monitoring

Product Advantage of automatic collective doffing device

Doffing indicators: doffing time for 3 minutes, managing time for 25 minutes, intubation rate 98%, Decannulation rate 98%, rate of yarn reserve $\geq 98\%$.

Investment return: to spin 6-12s yarn for example, after installing collective doffer device, it only takes 2 years to pay for itself.

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INDIGO ROPE DYEING RANGE



Drive-side Mian view of rope dyeing range



Drive-side



Dye Box



Paddler



Dosing & Circulation



Coiler Cans

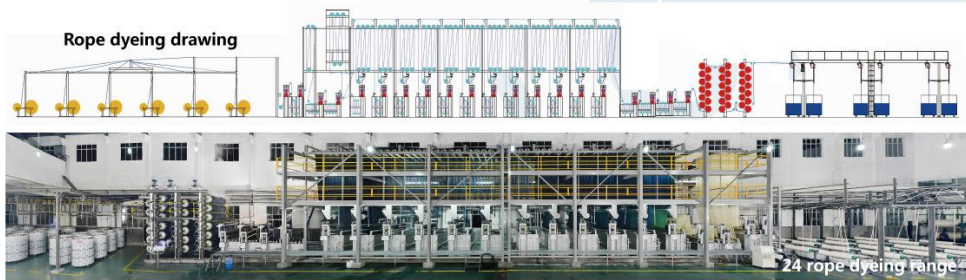
SHANGHAI SINGULARITY IMP & EXP CO., LTD.



Indigo Rope Dyeing Range

indigo rope dyeing range is the top choice for top-quality denim production, packed with the latest and best technology.

SPECIFICATIONS			FEATURES	
1	Machine Speed (Dyeing)	6 ~ 36 M/min	1	High Productivity
2	Padder pressure	10 Tons	2	High Indigo Pickup
3	Airing Length	40 M (Typical)	3	Best Color Fastness
4	PLC, Inverter, Monitor / PLC	ALLEN-BRADLEY or SIEMENS	4	Best Shade Evenness
			5	Best Production Flexibility



Principles for Indigo Rope Dyeing Range

1. Yarn is first prepared (by ball warping machine for rope dyeing, by direct warping machine for slasher dyeing) and start from the beam creels.
2. Pre-treatment boxes prepare (by cleaning & wetting) the yarn for dyeing.
3. Dye boxes dye the yarn with indigo (or other types of dye, such as sulfur).
4. Indigo is reduced (as opposed to oxidation) and dissolved in the dye bath in the form of leuco-indigo in an alkalic environment, with hydrosulfite being the reduction agent.
5. Leuco-indigo bonds with yarn in the dye bath, and then brought into contact with oxygen on the airing frame, leuco-indigo reacts with oxygen (oxidation) and turns blue.
6. Repeated dipping and airing processes allow indigo to gradually develop into a darker shade.
7. Post-wash boxes remove the excessive chemicals on the yarn, additional chemical agents may also be used at this stage for different purposes.
8. dyed yarn (in the form of ropes) will need to undergo the process of rebeaming (on rebeaming machines, aka LCB / Long Chain Beamer) to break the rope and wind onto warp beams for sizing, before weaving. Or, in case of knitted denim, cone winding is done after rebeaming, to prepare cones for circular knitting
9. Rope dyeing is generally superior in terms of dyeing result (color fastness, higher indigo pickup, shade evenness, etc.).
10. Rope dyeing can also be used for knitting yarn, while slasher dyeing cannot (without major modification).
11. Rope dyeing requires bigger initial investment, and also requires extra machines (LCB, sizing) and space
12. Production capacity: About 60000 meters yarn by a 24 rope dyeing range, about 90000 meters yarn by a 36 rope dyeing machine

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INDIGO SLASHER DYEING RANGE



Operation-side Main View Of Slasher dyeing range



Beam creels



Headstock



Electric Cabinet Partial View



Beam Creels



Automatic Tension Contro



Automatic Tension Control

SHANGHAI SINGULARITY IMP & EXP CO., LTD.



Top View of slasher dyeing machine



Split zone



Indigo Slasher Dyeing Range

indigo slasher dyeing range is a time-proven machine that combines indigo dyeing and sizing into a single process.

SPECIFICATIONS

1	Machine Speed (Dyeing)	6 ~ 36 M/min
2	Machine Speed (Sizing)	1 ~ 50 M/min
3	Airing Length	32 M (Typical)
4	Accumulator Capacity	100 ~ 140 M

FEATURES

1	Dyeing + Sizing
2	Efficient Production
3	Minimum Yarn Breakage
4	Multiple Production Modes
5	Highly Automated Production



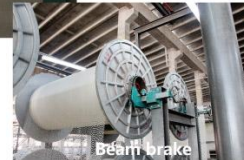
Top sheet & Bottom sheet



Endress+Hauser Flowmeter



Sizing box



Beam brake



Principles for slasher indigo dyeing

1. Yarn is first prepared (by ball warping machine for rope dyeing, by direct warping machine for slasher dyeing) and start from the beam creels.
2. Pre-treatment boxes prepare (by cleaning & wetting) the yarn for dyeing.
3. Dye boxes dye the yarn with indigo (or other types of dye, such as sulfur).
4. Indigo is reduced (as opposed to oxidation) and dissolved in the dye bath in the form of leuco-indigo in an alkalic environment, with hydrosulfite being the reduction agent.
5. Leuco-indigo bonds with yarn in the dye bath, and then brought into contact with oxygen on the airing frame, leuco-indigo reacts with oxygen (oxidation) and turns blue.
6. Repeated dipping and airing processes allow indigo to gradually develop into a darker shade.
7. Post-wash boxes remove the excessive chemicals on the yarn, additional chemical agents may also be used at this stage for different purposes.
8. sizing process is done right after dyeing on the same machine, final beams are ready for weaving.
9. Productivity-wise, a slasher dyeing range usually has about HALF the production capacity of 24 / 28 ropes dyeing range.
10. Production capacity: About 30000 meters yarn by a slasher dyeing range

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THE PRODUCTION LINE FOR KNITTED DENIM FABRIC

Knitted denim is a kind of denim, but it is made by knitting method of denim, compared with woven more elastic, knitted denim using knitting weft knitting method, the use of rope dyeing, blue and black, sulphur black etc. knitting bobbin yarn in the circular knitting machine to implement a special process to produce clothing fabric with washing and fading effect. Its varieties are mainly small fish scale hair circle, large fish scale hair circle, coarse and fine twill hair circle, raised twill hair circle, plain jersey and so on.

Advantages of knitted denim

1. Soft texture and anti-wrinkle: Because denim fabric adopts the same knitting process as wool fabric, it has the characteristics of softness, folding resistance, anti-static, and can absorb sweat.

2. Dirt resistance and washable: general denim fabrics have the characteristics of dirt resistance and washable, as long as they are washed according to the washing instructions on the label, it will not cause fading and discoloration;

3. Trendy and stylish: denim fabric clothing has a great contemporary trend color, clothing to wear the trend and full of charm;

4. Snug and comfortable: Thin denim clothing is very light and comfortable to wear.
Strong protective effect: denim fabric clothing has a good protective effect, can prevent the outside strong ultraviolet radiation, reduce the skin damage caused by sunburn or summer use.

5. Safe texture: Denim fabric is very soft, not easy to cause irritation, very friendly to skin and comfort;

6. Move freely: Wear thin denim fabrics to make your body move more smoothly.

SHANGHAI SINGULARITY IMP & EXP CO., LTD.

The production line for knitted denim fabric



Here we introduced the whole process of producing knitted fabrics and the equipments needed



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