



SHENGTAI

Provide customers with professional
and standardized services



Provide overall solutions for coating line

- *Powder Coating Line*
- *Spraying Line*
- *Big Cyclone Powder
Recycling Room*
- *Electrophoretic Coating
Line*

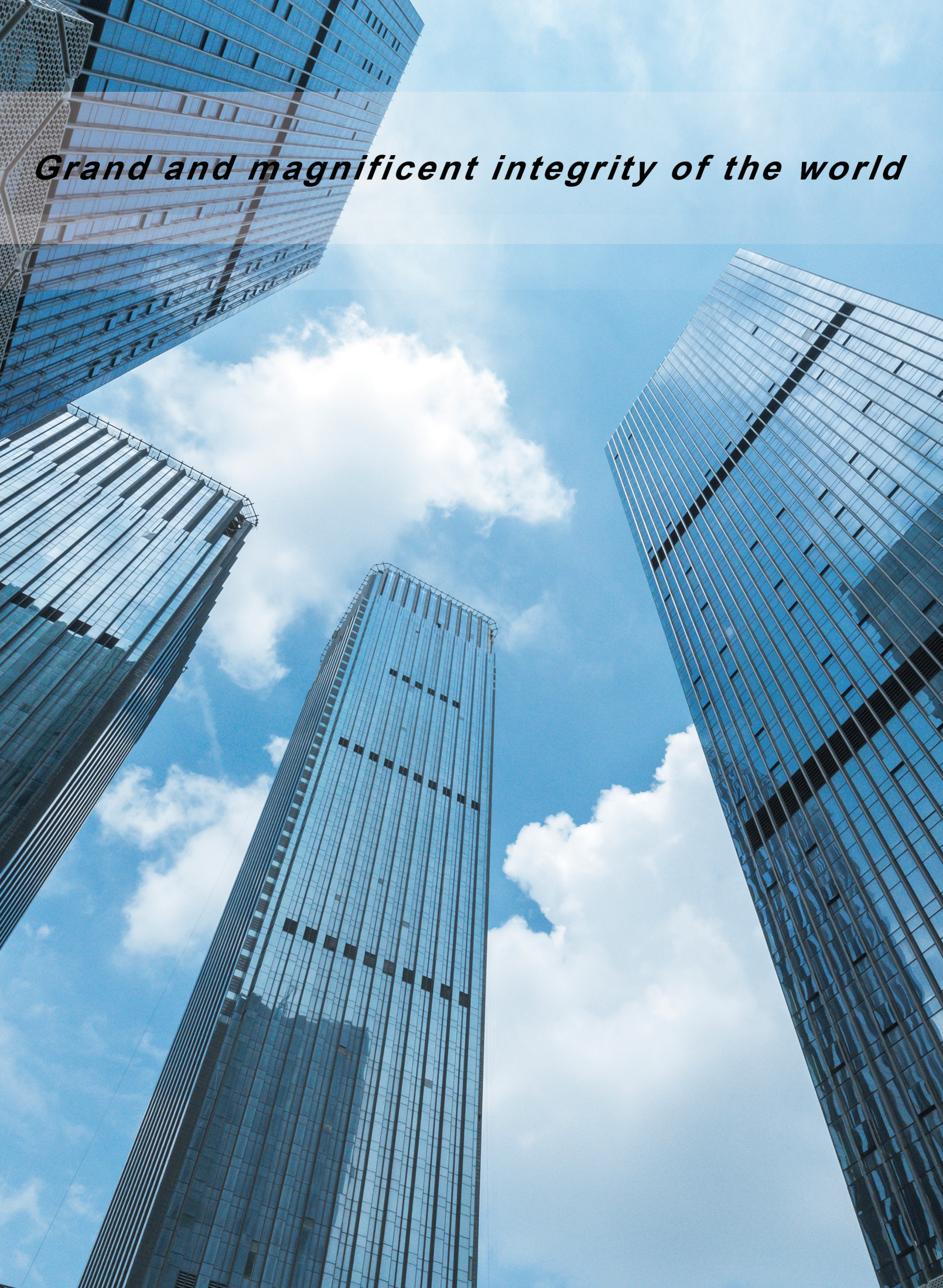
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China · ShanDong
Ji'nan ShengTai Painting Equipment Co., Ltd



Grand and magnificent integrity of the world

FIRST ARTICLE

» Company profile > . > . > .

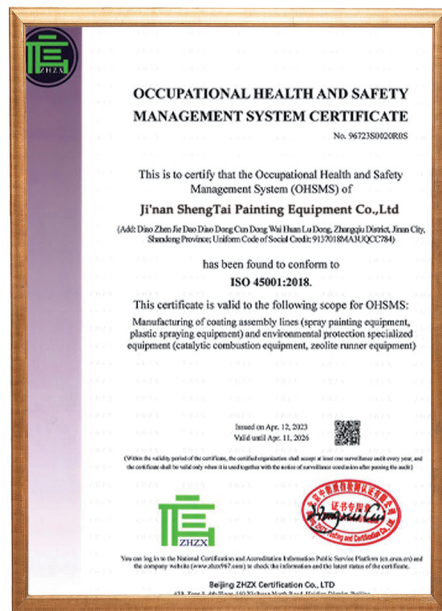
Ji'nan ShengTai Painting Equipment Co.,Ltd is a professional design and manufacturing coating equipment enterprise, dedicated to the metal surface treatment industry. Our main products include electrostatic spray molding assembly line, cyclone powder spraying room, painting production line, furniture spray painting assembly line, oven, electrophoresis production line, and spray pre-treatment production line Coating waste gas treatment equipment and other products.

Our company is a professional manufacturer that integrates research and development, production, sales, installation, and service. The product is widely used in various metal products such as household appliances, appliances, chassis and instruments, aluminum production, radiators, vehicles, steel and wood furniture, iron jewelry, highway guardrails, and the wood products industry.

The company adheres to the spirit of creating a green environment through technology and benefiting humanity through technology. It has established a technology development center and established long-term cooperative relationships with multiple universities and environmental research institutions. It is committed to the development and utilization of painting equipment, industrial waste gas purification, and energy-saving and emission reduction products. Together with colleagues in the environmental protection industry, we strive to add glory and color to the environmental protection cause of our country, and make due contributions to protecting the ecological environment and creating a beautiful home with clear water and blue sky.



Certifications



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Large cyclone powder spraying room

The large cyclone powder spraying room is actually one of the process equipment of the induction and power spraying equipment assembly line, and the powder recovery depends on it.



Intelligent control



Stable performance



High efficiency



The cyclone powder room has the following advantages:

1. Big Cyclone adopts European technology, combined with Chinese characteristics, the recovery rate can reach more than 95%.
2. The powder spraying room equipment can be equipped with automatic recovery and sifting system to ensure the normal pollution-free circulation of powder.
3. Cyclone features: reduce powder consumption, save powder.
4. With high efficiency separation cyclone, recovery efficiency of more than 95%.
5. There is a powder collection fluidization tank at the bottom of the spray room, and the oversprayed powder is directly recycled into the powder supply barrel to reduce the loss of cyclone recovery.



Application scenario

Suitable for automobile, plastic, bridge, aerospace, wood products, fitness equipment, hardware products and other surface spraying and spraying plastic integration function.

6. A powder collection fluidization tank is designed at the bottom of the spray room to directly recycle the oversprayed powder into the powder supply barrel to reduce the loss of cyclone recovery.
7. Low energy consumption, compared with similar small cyclone equipment, power consumption saving one-third.
8. The bottom plate of the spray room is made of stainless steel plate, the side plate and the top plate are made of PP plate material, and the cleaning is very fast. The single-tube cyclone two-stage recovery system is adopted, which is currently recognized as one of the fastest recovery systems in China, and the color change time is about 20 minutes.



9. The empty length of the spray room is shortened, which reduces the cleaning time of the spray room. Under the large cyclone, the pipe is connected with a hinged quick button, which can be easily moved and cleaned.
10. The configuration of large cyclone dusting system SIEMENS is like man-machine interface, the setting of parameters is convenient and simple; Friendly Chinese man-machine interface, using graphical symbols, parameter setting, alarm information prompt, maintenance prompt, password protection and other functions. Thus, the whole set of equipment is simple to operate and easy to maintain.

A great whirlwind

Detailed parameters



Number	model	Air volume	External dimensions	Form of powder collecting hopper
1	Φ0.7 m	4150-5750m³/h	780x780x2930mm	Quick buckle style
2	Φ0.9 m	6865-9950m³/h	950x950x3725mm	Quick buckle style
3	Φ1.1 m	9710-13500m³/h	1110x1110x3965mm	Quick buckle/rotating cone
4	Φ1.3 m	13600-18900m³/h	1540x1540x4930mm	Rotating cone type
5	Φ1.5 m	18300-25500m³/h	1750x1750 x5625mm	Rotating cone type
6	Φ1.7m	23000-32000m³/h	1950x1950X6313mm	Rotating cone type

Note: Working inlet wind speed 18-25m/s

Note: The above are all routine parameters of our factory's air volume. If users have special needs, they can be specially designed, processed and manufactured.

Filter cartridge recycling machine

Detailed parameters



Number	Model	Air volume	External dimensions	Optional fan
1	9 filter cartridges	10800-13500m³/h	L1800XW1600XH4150 /5500mm	18.5/22.0 kw
2	12 filter cartridges	14400-18000mm³/h	L2300XW1600XH4150 /5500mm	22.0/30.0 kw
3	16 filter cartridges	19200-24000mm³/h	L2300XW2100XH4150 /5500mm	30.0/37.0 kw
4	20 filter cartridges	24000-30000mm³/h	L2800XW2100XH4150 /5500mm	37.0/45.0 kw

There are two options for backwashing:
① Pulse Venturi backwashing method ② Rotating wing backwashing method

Note: The above are the conventional parameters of our factory's filter cartridge recycling box. If users have special needs, they can be specially designed, processed and manufactured.



Spraying powder coating line

The seven components of the painting line mainly include: pre-treatment equipment, powder spraying system, painting equipment, oven, heat source system, electric control system, suspension conveyor chain, etc.



Intelligent control



Stable performance



High efficiency



1. Pre-processing equipment:

Spray type multi-station pre-treatment unit is a commonly used equipment for surface treatment. Its principle is to use mechanical impact to accelerate chemical reaction to complete the process of oil removal phosphating and water washing. The typical process of spray pretreatment of steel parts is: pre-degreasing, degreasing, washing, washing, surface conditioning, phosphating washing, washing, pure water washing. Shot blasting machine can also be used for pre-treatment, which is suitable for steel parts with simple structure, serious rust, no oil or less oil, and no water pollution.



Application scenario

Suitable for the surface of the workpiece painting, spraying plastic treatment, mostly used for single or small batch of workpiece painting operations, with the suspension conveyor, electric rail trolley, ground conveyor and other transport machinery to form transportation operations.

2. Powder spraying system:

The small cyclone + filter element recovery device in powder spraying is a more advanced powder recovery device with faster color change. It is recommended to choose imported products for the key parts of the powder spraying system, and all components such as the powder spraying room and electric mechanical elevator should be domestically produced

3. Spray painting equipment:

Such as oil spray painting room, water curtain painting room, can be widely used in bicycle, automobile leaf spring, large loader surface coating.

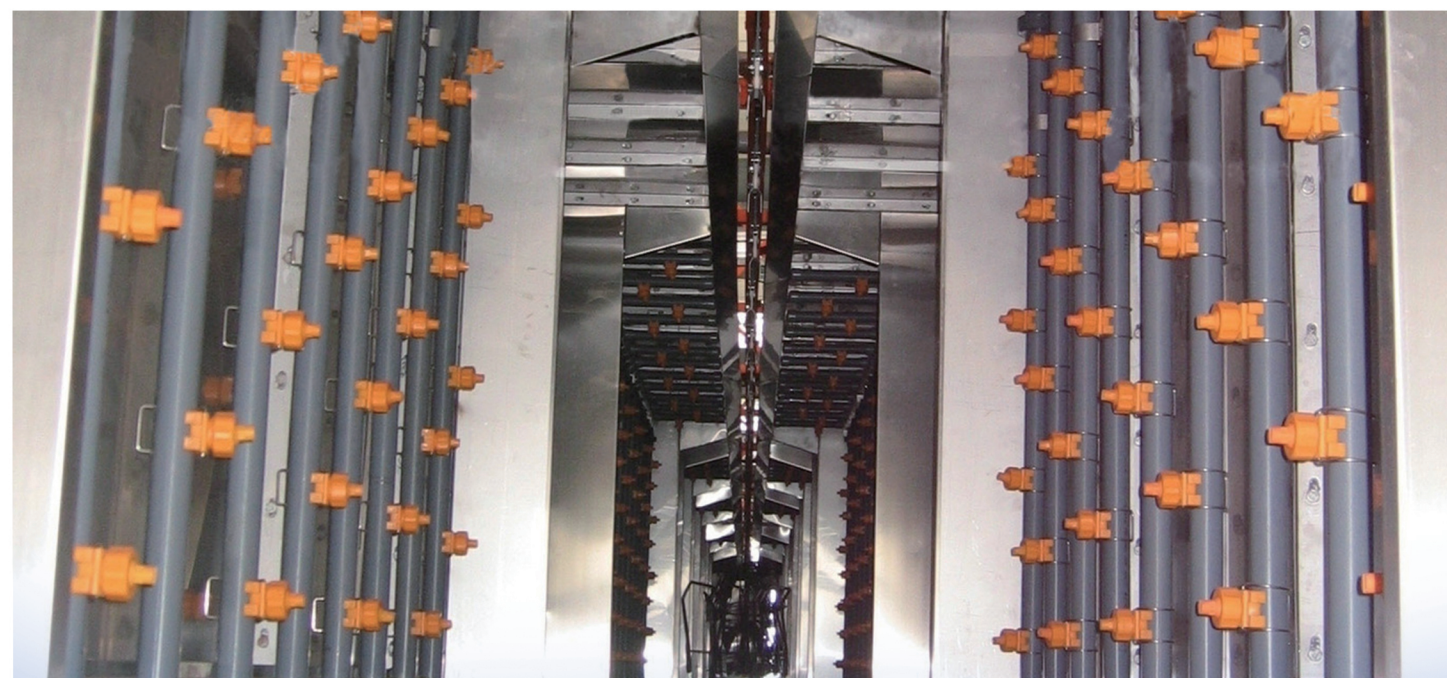
4. Heat source system:

Hot air circulation is a common heating method, which uses the convection conduction principle to heat the oven to achieve the drying and curing of the workpiece. The heat source can be selected according to the specific situation of the user: electricity, steam, gas or oil. The heat source box can be determined according to the condition of the oven: placed on the top, bottom and side.



5. Oven:

Oven is one of the important equipment in coating production line, and its temperature uniformity is an important index to ensure coating quality. The heating methods of the oven are: radiation, hot air circulation and radiation + hot air circulation, etc., according to the production program can be divided into single room and through type, etc., the equipment forms are straight through type and bridge type. The hot air circulating oven has good thermal insulation, uniform temperature in the furnace and less heat loss. After testing, the temperature difference in the furnace is less than $\pm 30^{\circ}\text{C}$, which can reach the performance index of similar products in advanced countries.



Spray line

The pre-treatment spray line plays the role of cleaning the surface of the aluminum profile. At the same time, a layer of chromium film is formed on the surface of the profile to prepare the preliminary work for spraying powder.



Intelligent control



Stable performance



High efficiency



Spray line principle:

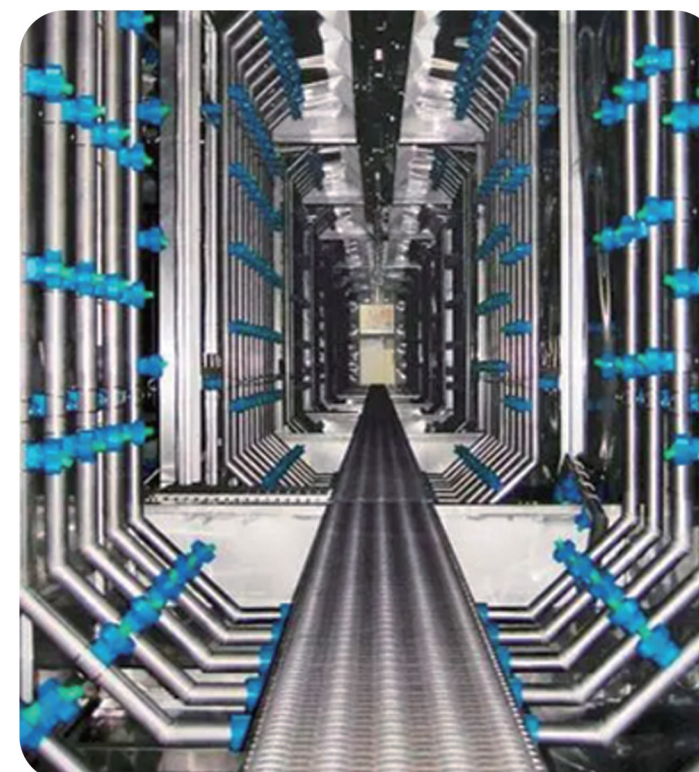
The spray line uses the spray principle to make the liquid continuously act on the surface of the workpiece, with strong work continuity and high efficiency, suitable for large-scale operation requirements, and is widely used. When the traditional pre-treatment spray line is used, the nozzle positioning is inconvenient and the installation of internal components is more complicated. At the same time, when multiple groups of nozzles spray profiles, part of the spray will gather in the spray chamber. Cleaning is inconvenient, which affects the use of pre-treatment spray line.

The pre-treatment spray line comprises a shell, the lower surface of the shell is fixed with a base, and the bottom position of the outer wall on both sides of the shell is provided with a fixed frame,

Application scenario

Suitable for the flat workpiece surface, small volume of the product workpiece, larger product quantity order, can be continuous production line factory. Such as hardware, small household appliance shell, etc.

the two groups of the fixed frame away from the upper surface of the shell are fixed installed with a number of groups of pumps, the upper surface of the pump is fixed connected with a liquid extraction pipe, and the pump is fixed between one side and the top position of the shell is installed with an infusion tube. The inner walls of the outer shell are respectively provided with a first spray pipe and a second spray pipe, and the first spray pipe and the second spray pipe are symmetrically arranged in the shell as the center. The top two sides of the outer shell are respectively provided with a connection groove corresponding to the first spray pipe and the second spray pipe, and the lower end of the infusion pipe is arranged in the interior of the connection groove. The upper end of the first spray pipe and the second spray pipe are welded respectively in the lower end of the corresponding infusion pipe, the top position of the inner wall of the shell is arranged horizontally with a lifting rail and two groups of positioning blocks, the first spray pipe, the second spray pipe and the shell are fixed between three groups of clamps, the three groups of clamps are distributed parallel in the vertical direction. The inner wall of the shell is provided with a fixed block in the middle of the inner wall of the shell, and the inner wall of the shell is provided with a baffle plate before and after the inner wall of the shell, and the inner wall of the shell is provided with a first set of liquid tank and a second set of liquid tank on both sides of the edge, the first spray pipe and the second spray pipe are arranged above the first set of liquid tank and the second set of liquid tank. Recovery tubes are fixed on both sides of the bottom edges of the front surface of the baffle plate located at the front edge.





Electrophoretic line

It is a coating technology in which the coated material is diffused in the water-soluble paint as an anode, and a corresponding cathode is set up, and direct current is passed between the two poles, and the physical and chemical action generated by the current makes the coating evenly coated on the coated material.



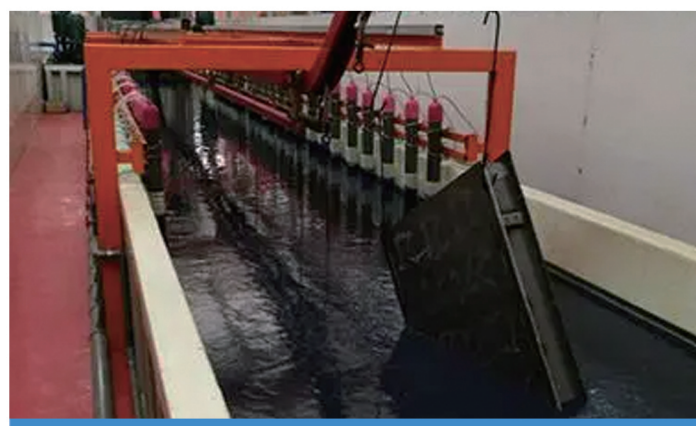
Intelligent control



Stable performance



High efficiency



Electrophoretic coating must use electrophoretic paint, electrophoretic paint is usually called water-soluble paint, electrophoretic paint and distilled water must be diluted in a certain proportion before it can be used.

Application scenario

Suitable for stainless steel, metal plating parts, precious metal accessories, lamps and clocks, glasses, lighter accessories, locks and high-end furniture hardware surface protection decoration.

Electrophoretic painting pipeline

Electrophoretic painting generally consists of four simultaneous processes:

1. Electrophoresis:

Under the action of direct current electric field, positive and negative charged colloidal particles move in negative and positive direction, also known as swimming coating.

2. Electrolysis:

The fluorination reduction reaction was carried out respectively on the electrode, but oxidation and reduction phenomena were formed on the electrode.

3. Electrodeposition:

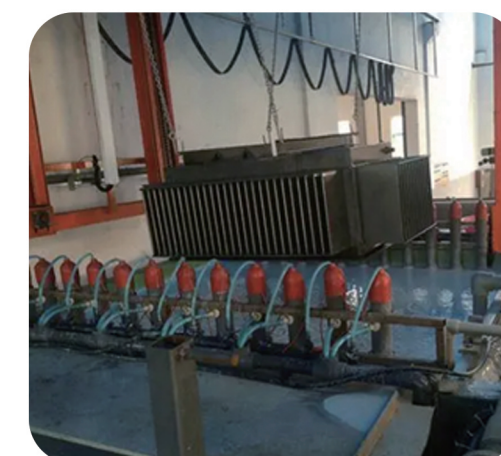
In the process of electrophoresis, charged colloidal particles moved near the anode release electrons in the template surface body, and are deposited in an insoluble state, precipitating phenomenon, at which time the paint film is formed.

4. Electroosmosis:

Under the action of an electric field, the solid phase does not move while the liquid phase moves. Electroosmosis makes the water content in the film gradually discharged to the outside of the film, 2 after forming a dense film with almost no current, very low water content and very high resistance.

5. Iron red epoxy electrophoretic paint for example:

In the electrophoretic paint modified cyclic hydrogen resin, butanol, ethanolamine, talc powder, iron red material composition after mixing with distilled water, under the action of direct current electric field, that is, separated into positively charged cations and negatively charged anions, and a series of complex physical and chemical colloid chemistry, electrochemical changes process.



After electrophoresis, the product has the following characteristics:
High transparency and fullness, with special gloss and transparency, after painting has a high three-dimensional effect, the substrate color is exposed. High hardness, when the temperature is 150°C, the hardness can reach 3-4H. Good flatness, strong film feeling, good film slip feeling. Has a strong binding force and penetration force: the paint is permeable, wet film and dry film binding force is strong. Discoloration resistance and corrosion resistance is good, when the baking temperature reaches 180°C-190°C workpiece does not change color, product color lasting gorgeous, excellent corrosion resistance. Electrophoretic uniformity is good, the paint film is uniform and flat, 10-25UM can be reached within 30-150V, high efficiency and high power consumption. Good resistance to impact and artificial sweat.



Furniture electrophoresis



Automotive electrophoresis



Steel ring electrophoresis

Electrophoretic wire

Process flow and parameters

Number	Process name	Process methods	Process parameters		Remarks
			temperature/°C	Time/second	
1	Go live	Artificial	RT		
2	Prewashing	Spray	RT	30	
3	Defatting	Spray	50~60	60	
4	Water Wash 1	Spray	RT	30	
5	Water Wash 2	Spray	RT	30	
6	Fresh tap water spray	Spray	RT		
7	Table tuning	Spray	RT	30	
8	Phosphating	Spray	40~45	180	
9	Water Wash 3	Spray	RT	30	
10	Water Wash 4	Spray	RT	30	
11	Pure water washing	Spray	RT	30	
12	Fresh pure water spray	Spray	RT	PASS	
13	electrophoresis	Stirring impregnation	28±2	180	+ Spray UF water out of the tank
14	UF1 washing	Spray	RT	30	
15	UF2 washing	Spray	RT	30	
16	Fresh UF spray	Spray	RT	PASS	
17	Electrophoretic drying	Hot air circulation	<180	40	
18	Strong cooling+ natural cooling		RT	35	Ensure that the offline temperature of the workpiece is ≤ room temperature plus+ 10 °C



Spray powder supply center

The main spray plastic is made of excellent anti-static steel plate to make anti-corrosion and anti-rust, and the built-in negative pressure device will use the wind generated by the fan to attract the powder to the air duct and then to the large cyclone separation to ensure the clean operating environment.



Intelligent control



Stable performance



High efficiency



Precise positioning, energy-saving and efficient:

The powder level is monitored by the powder level detector to ensure the quality of recovered powder, thus realizing the synchronous recovery and utilization of powder.

Application scenario

Suitable for large-scale production, it can freely connect and combine various pre-treatment and spraying equipment, making it easy to achieve automated assembly line operations and improve labor productivity. Widely used in the home appliance industry, air conditioning casings, furniture industry, woodworking machinery, etc.

Intelligent control is easy to maintain:

Intelligent screen operation, can display each part of the working status, alarm information, parameter setting so that the entire equipment operation is easy to operate and maintenance can be convenient.

Convenient powder change to improve efficiency:

The powder supply center can realize the full automatic circulation of powder, complete the rapid powder change, save the labor and time of cleaning, and improve the production efficiency.



- External powder pump, no need to clean;
- Visual cleaning of air outlet, clean in place;
- No powder waste, powder bucket flow diffuse powder and clean residual powder is recovered by big cyclone;
- Vibrating screen shell made of 304 stainless steel, hydraulic mold manufacturing, the overall structure is firm, good sealing.





Automatic lifting and reversing machine

The classic PID control algorithm is used to accurately analyze the positioning without motion, ensuring the accurate positioning of the spraying reciprocating machine.



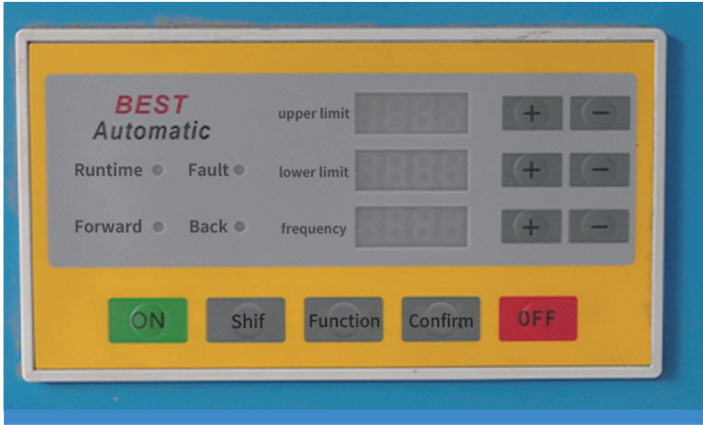
Intelligent control



Stable performance



High efficiency



Uniform spraying saves labor:

For a variety of different products to achieve automatic identification, automatic adjustment of accurate spraying on the surface of the product to reduce the powder, but also save labor costs, improve the overall work efficiency.



Application scenario

It is suitable for industrial machinery listening coating, automobile and other parts spraying, component spraying tools, color steel plate, guardrail handrail, casting, construction, hardware, shipbuilding, chemical industry, aviation, food, home appliances and other fields.

Accurate positioning and smooth operation:

The lifting system of the repeater adopts the square rail guide rail with high precision, and the vertical and horizontal positioning of the column always keeps the smooth operation in good condition.

Intelligent spraying and adjustable speed:

The returner is equipped with intelligent control panel, which controls the stroke and speed of the returner, making the operation more simple and convenient. Direct output by PLC stepless PWM control instructions, the inverter to achieve one-to-one direct control, so as to achieve accurate speed.



Automatic lifting and reversing machine

Detailed parameter

Standard Travel	Large itinerary (customizable)
Elevator load	40kg
Speed range	0-1m/s(Variable frequency stepless speed regulation)
Source	0.75KW
Up and down point delay	Up and down point operation, infinitely adjustable
Storing Workpieces	35
Multi stage variable speed spraying, with accurate segment-ed and stepless variable speed, can achieve multi area and multi speed spraying for complex work.	





Shot blasting machine

Shot blasting machines are divided into drum type, chain plate type, rotary table type, trolley type, squirrel cage type, and hanging type according to the structure of the casting bearing body



Intelligent control



Stable performance



High efficiency



Shot blasting machine is a kind of processing technology which throws steel sand and steel shot at high speed and impacts on the surface of material object by shot blasting machine. It is faster and more efficient than other surface treatment technologies and can be applied to the casting process after partial retention or stamping. Almost all steel castings, gray castings, malleable steel parts, ductile iron parts, etc. should be shot blasting treatment. This is not only to remove the oxide and sand on the surface of the casting,

Application scenario

Suitable for the surface of the workpiece painting, spraying plastic treatment, mostly used for single or small batch of workpiece painting operations, with the suspension conveyor, electric railtrolley, ground conveyor and other transport machinery to form transport operations.

but also an indispensable preparation process before the quality inspection of the casting, such as the large gas turbine shell must be strictly shot peening cleaning before nondestructive testing to ensure the reliability of the test results. Shot peening cleaning is an essential method to find surface defects of castings such as subcutaneous pores, slag holes, sticky sand, cold insulation, peeling, etc. The surface cleaning of non-ferrous metal castings, such as aluminum alloy, copper alloy, etc., in addition to removing the oxide skin and finding the surface defects of the castings, the main purpose is to remove the burr of the die casting and obtain the surface quality with decoration significance, and obtain the comprehensive effect. In metallurgical iron and steel production, shot peening or pickling is a mechanical or chemical process used to remove phosphorus peel to ensure high productivity in mass production of steel. In the production of silicon steel sheet, stainless steel sheet and other alloy steel plate and strip, it must be annealed during the cold rolling process and then shot blasting or pickling treatment to ensure the surface roughness and thickness accuracy of the cold rolled steel plate.



Operating procedures

1. The operation of the equipment strictly implement the fixed personnel training, familiar with the performance and characteristics of the machine.
2. Familiar with the operation procedure, use, repair and maintenance of the shot blasting machine in the instruction manual.
3. The operator must check the control cabinet (panel) all kinds of switches in the required setting position (including each power switch) can be turned on, so as to avoid misoperation, damage to electrical and mechanical equipment, resulting in equipment accidents.
4. Non-local operators shall not operate or touch the electrical switch control area, shall not be close to the work area of the machine, so as to avoid accidents.
5. The operator must wear protective work clothes, glasses, etc.
6. The operator pays special attention to all kinds of instrument instructions on the panel when starting up, and can only operate the small crane (roller table) into the working procedure when all the instrument instructions reach the normal value. If it is found that the individual instrument indicates a large error (abnormal) immediately shut down. The device can be powered on properly only after the fault is rectified.



Intelligent control



Stable performance



High efficiency



Heating method of high temperature oven

Electric heating, oil heating, coal heating, wood heating, heat conduction oil heating gas heating. The size, working temperature and heating method of the high-temperature oven can be customized according to the needs of customers.

Application scenario

Suitable for machinery, motor, water pump, bathroom, hardware, furniture, automobiles, crafts and other industries of the surface spray.



The high temperature oven is much higher than the working temperature of the general oven, the general design working temperature of the high temperature oven designed by our company is mainly suitable for the anti-theft door, iron door, steel guardrail, heavy machinery and other spray-ing plastic powder or paint need high temperature baking, the use of rock wool insulation fireproof board, board thickness of 5CM,7.5CM,10CM three specifications and color (interior white, exterior blue,white optional).



Equipped with automatic timing alarm, to reach the set temperature, the equipment automatically power off, timing alarm equipment runs smoothly, safe and reliable use.



Centrifugal fan

According to the principle of converting kinetic energy into potential energy, the centrifugal fan uses a high-speed rotating impeller to accelerate the gas, and then decelerates and changes the flow direction to convert kinetic energy into potential energy (pressure).



Intelligent control



Stable performance



High efficiency



High temperature resistance strong suction:

The fan and the air bin are equipped with thermal insulation aluminum alloy flange, fast heat dissipation, strong heat insulation, good heat insulation effect, and effectively prevent the heat transfer to the motor or to avoid the motor being burned.

Application scenario

Suitable for industrial dust removal, wood working dust removal, environmental protection equipment, laser dust removal equipment, spraying equipment and so on. It can also be applied to catering smoke exhaust, boiler ventilation, wind transport, blast use.

Fan 4 core capabilities:

1. High temperature resistance strong suction:

The fan and the air bin are equipped with thermal insulation aluminum alloy flange, fast heat dissipation, strong heat insulation, good heat insulation effect, and effectively prevent the heat transfer to the motor to avoid the motor being burned.

2. Carbon steel shell:

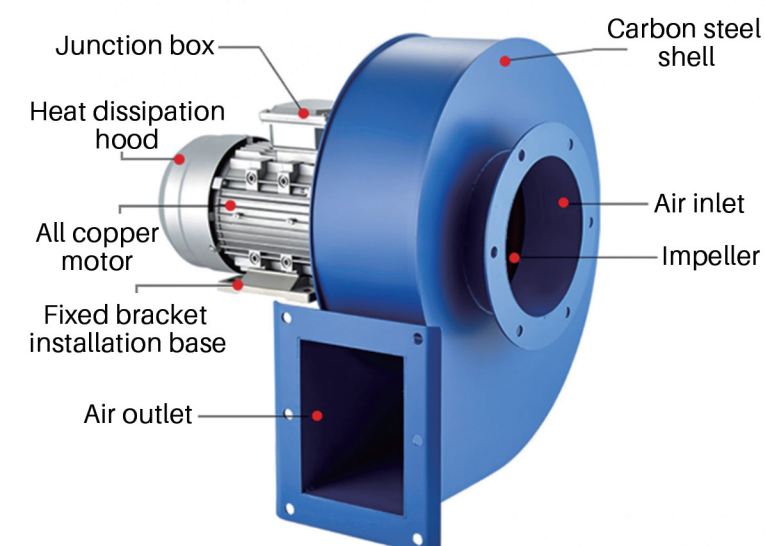
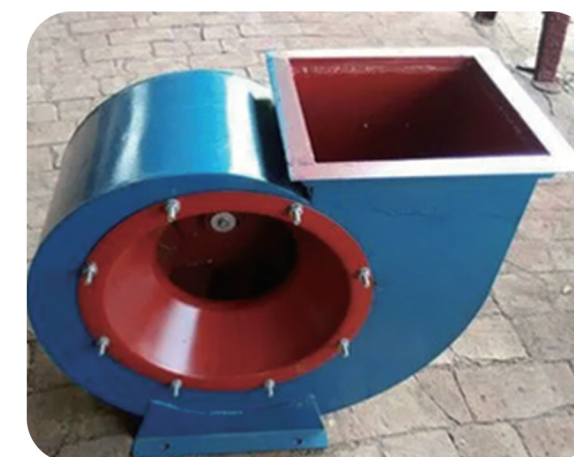
Spraying process, the color is soft and bright, durable luster, while clear and convenient to avoid deformation in wet and greasy environment.

3. Stable and reliable motor:

Full copper coil, full power, strong power, low temperature rise, so that the pump in the running process provide low heat, high efficiency, and durability can be improved.

4. High-precision bearings:

Quiet, hidden stable, high load, imported lubricating oil, long service life.





Powder gun

Electrostatic powder spraying machine, using advanced technology imported circuit board durable high powder rate, sensitive electrostatic regulation, uniform powder.



Intelligent control



Stable performance



High efficiency



Electrostatic powder spraying machine, using advanced technology imported circuit board durable high powder rate, sensitive electrostatic regulation, uniform powder. An industrial equipment used in the surface treatment of objects, which can spray the powder coating containing epoxy resin, polyester resin (plastic) and other materials onto the object, and the sprayed object is solidified in the fixed-line furnace to obtain a complete coating to play the decorative, anti-corrosion and other functions.



Application scenario

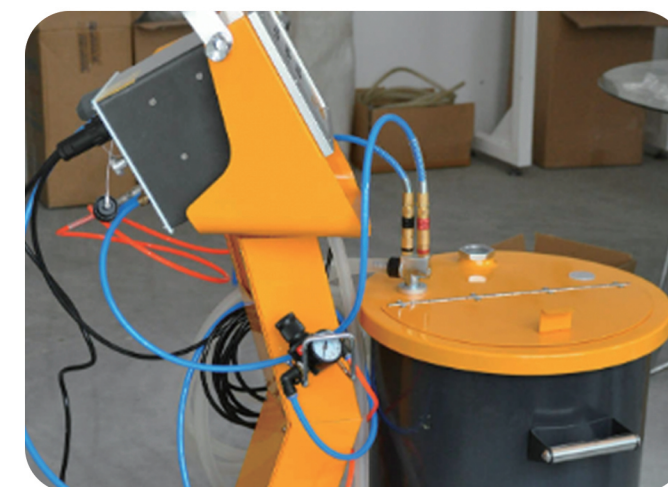
Suitable for machinery, motor, water pump, bathroom, doors and Windows, furniture, crafts, automotive and other industries of the product surface spraying.

Easy color change:

High productivity, static spray gun fixed installation, to achieve multiple spraying at the same time, easy to achieve semi-automation and automation, compared to compressed air spraying, productivity can be increased several times.

High flour yield:

The material particles are small, the deposition efficiency is high, the environmental protection effect is good, the paint is uniform and has full adhesion and good decorative properties. The painting spray has large volume and high powder rate.



Low loss, easy operation:

The paint utilization rate is high. High powder utilization rate reduced powder waste and pollution, reduced the need for paint mist filtration devices, and improved labor hygiene conditions.

Intelligent spraying, Intelligent even digital display:

It can obtain a beautiful surface coating, does not occur hanging, and can obtain a thick flat coating.





Biomass burner

This biomass is semi-gasification automatic control burner, It can use biomass particles, wood chips, wood flour, sawdust and other organic biomass as fuel.



Intelligent control



Stable performance



High efficiency



It uses thickened steel plate, and has a integrated design compact structure, small site occupation and streamlined body design, can be customized to left, right products which has beautiful appearance according to customer needs.

Application scenario

It is suitable for chain boiler transformation, oil and gas boiler transformation, steam boiler, hot water boiler, hot blast furnace heating, exchanger heating, heat conduction oil boiler, oil fryer heating, drying bed heating, drying room heating, etc.

Biomass fuel is burned in the furnace, and reasonable distribution of wind, accompanied by gasification components, this secondary wind effect is very obvious, one is to supply oxygen, the second is to further strengthen the disturbance of flue gas, so that the combustion is more adequate. At present, a large amount of air is used. High efficiency, energy saving, high thermal efficiency; low usage cost, double frequency feeding and dynamic optimization of air distribution, small fuel consumption and power consumption; Secondary air distribution multireturn preheating treatment; Low temperature stage combustion, fast fuel gasification speed, burning rate is more than 98%; Dynamic understanding, adjust the combustion state, size fire dual intelligent combustion.

Stable combustion and resource conservation:

Multi-circuit wind curtain control system, micro positive pressure resistance operation, high-precision fuel delivery system, accurate and smooth feeding; Gasification chamber low temperature combustion, high silicon temperature resistant material, stable operation equipment, long life; High, low temperature, multiple alarms, intelligent security chain control.

Simple operation and easy maintenance:

Automatic feeding, low temperature combustion in the gasification chamber, less coking in the grate, convenient ash removal, configuration of large capacity visual material bin, low labor intensity; Fire hole assembly design, track wheels structure of lifting and assisting, gasification chamber combined design, easy to install and maintain;

