



Manufacturer of Industrial Cleaning Equipment

Process solution service provider

ULTRASONIC CLEANER · MADE BY SKYMEN

WATER-BASED SOLVENT CLEANERS



WeChat



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Production Base: Wujiang science and technology park, Wujiang district, Shaoguan city, Guangdong province, China (Skymen Industrial Park)

SKYMEN TECHNOLOGY CORPORATION LIMITED

Change the traditional green cleaning

Cleaning can be divided into two aspects: physical action and chemical action. The ultrasonic cleaning technology is a physical action, while the cleaning agent is a chemical action. The combination of the two actions can fully and thoroughly clean the object.

The development of domestic cleaning agents has mainly gone through three stages.

Phase 1 - Simple

The main use of some strong corrosive acid, strong alkali, these cleaning agent composition is simple, corrosion inhibition performance is poor.

Phase 2 - Combined type

Various functional cleaning agents have appeared, such as penetrating agents, stripping agents, accelerators, catalysts, etc., which make the cleaning agents more functional, better synergistic performance, better descaling performance and sustained release effect.

Phase 3 - Environmentally friendly

With the advancement of fine organic synthesis technology, biotechnology, detection technology and other related technologies, cleaning agents are developing in the direction of "green" environmental protection, and the research and development and application of water-based cleaning agents are further improved.

Water-based cleaning

is also called water-soluble cleaning. It uses water as the base solvent and cooperates with auxiliary components such as surfactants, weak bases or weak acid solvents, and water-soluble organic solvents. Through wetting, emulsification, penetration, dispersion, and solubilization, to realize the cleaning of oil and dirt on the surface of objects.



Safety guarantee



Green environmental protection



Efficient cleaning



Economic benefits

CONTENTS

COMPANY INTRODUCTION

| | |
|----------------------------|-------|
| Company Profile | 01-02 |
| Three Base | 03-04 |
| Development Path | 05-06 |
| Qualification Patent | 07-08 |

APPLICATIONS AND CASES

| | |
|---|-------|
| New Energy/photovoltaic Industry | 09-10 |
| Auto Parts Industry | 11-12 |
| Mechanical Hardware Industry | 13-14 |
| Optics And Optoelectronics Industry | 15-16 |
| Rail Transit/aerospace Industry | 17-18 |
| Semiconductor Electronics Industry | 19-20 |
| Hydrogen Energy Industry | 21-22 |

PRODUCT TYPE

| | |
|--|-------|
| Single Station Vacuum Hydrocarbon Cleaning Equipment | 23 |
| Multi-station Vacuum Hydrocarbon Cleaning Equipment | 24 |
| High Pressure Spray Cleaning Machine | 25-26 |
| Tunnel Cleaning Line And Drying Line Ultrasonic Cleaner | 27-28 |
| Standard Cleaning Machine | 29-30 |
| (Single Tank/multi Tank/transducer Box/ultrasonic Transducer Cleaning Rod) | |

| | |
|----------------|-------|
| PARTNERS | 31-32 |
|----------------|-------|

Company Profile



Founded in 2007, Skymen Group is an ultrasonic cleaning equipment manufacturer integrating R &D, production, sales and service . It specializes in providing ultrasonic cleaning technology solutions for global customers , and is committed to becoming a world-leading "ultrasonic cleaning equipment Comprehensive service provider of the whole value chain".

Rooted in the ultrasonic cleaning industry for more than ten years, Skymen Group has been focusing on the research and development of comprehensive services for ultrasonic cleaning technology-related products . It is a national high-tech enterprise and a "specialized and special new enterprise" in Shenzhen. It has several subsidiaries such as Shenzhen Skymen, Guangdong Skymen, Guangzhou Kemeng, Shaoguan Skymen, Skymen Acoustics Group (Hong Kong), etc., which are distributed in various parts of South China. It has passed ISO9001, ISO 14001, etc. , and has various There are highly educated and high-tech personnel, there are many well-known brands, and more than 100 patents have been successfully applied . The products mainly include industrial equipment, commercial equipment, and household health ultrasonic cleaning machines, which are widely used in factory manufacturing, medical care, plastic products, mechanical hardware, transportation, electronic products, semiconductors, new energy and other major fields. Customers are located in more than 100 countries and regions around the world.

More than ten years of rapid development has enabled the company to gradually establish a complete sales system, forming the corporate characteristics of rich products, convenient supply, reasonable prices, and global services . In the future, Skymen people will be more forging ahead, pioneering and innovating , in order to implement the company's vision of "gradually becoming a respected international and diversified century-old enterprise" and "making the world cleaner and human beings healthier; creating beauty and serving The mission of "society" is unremitting efforts, and it is also making unremitting efforts to build the world's leading "integrated service provider of the whole value chain of ultrasonic cleaning equipment" .



35000+m²
Area of Shaoguan Production Base

Three Base



Shenzhen Fuyong·Marketing Center

Purchase office at Exhibition Bay · Zhonggang Plaza and set up an operation center integrating sales, brand, human resources, and finance, with an office area of about 1,000 + m² . With a very complete offline and online promotion team , it has been committed to using the soft power of the brand to enhance the competitiveness of front-end products in the market , in order to realize the group's "gradually becoming a respected international and diversified century-old enterprise" A common vision lays a solid foundation.



Shenzhen ShaJing · R&D Center

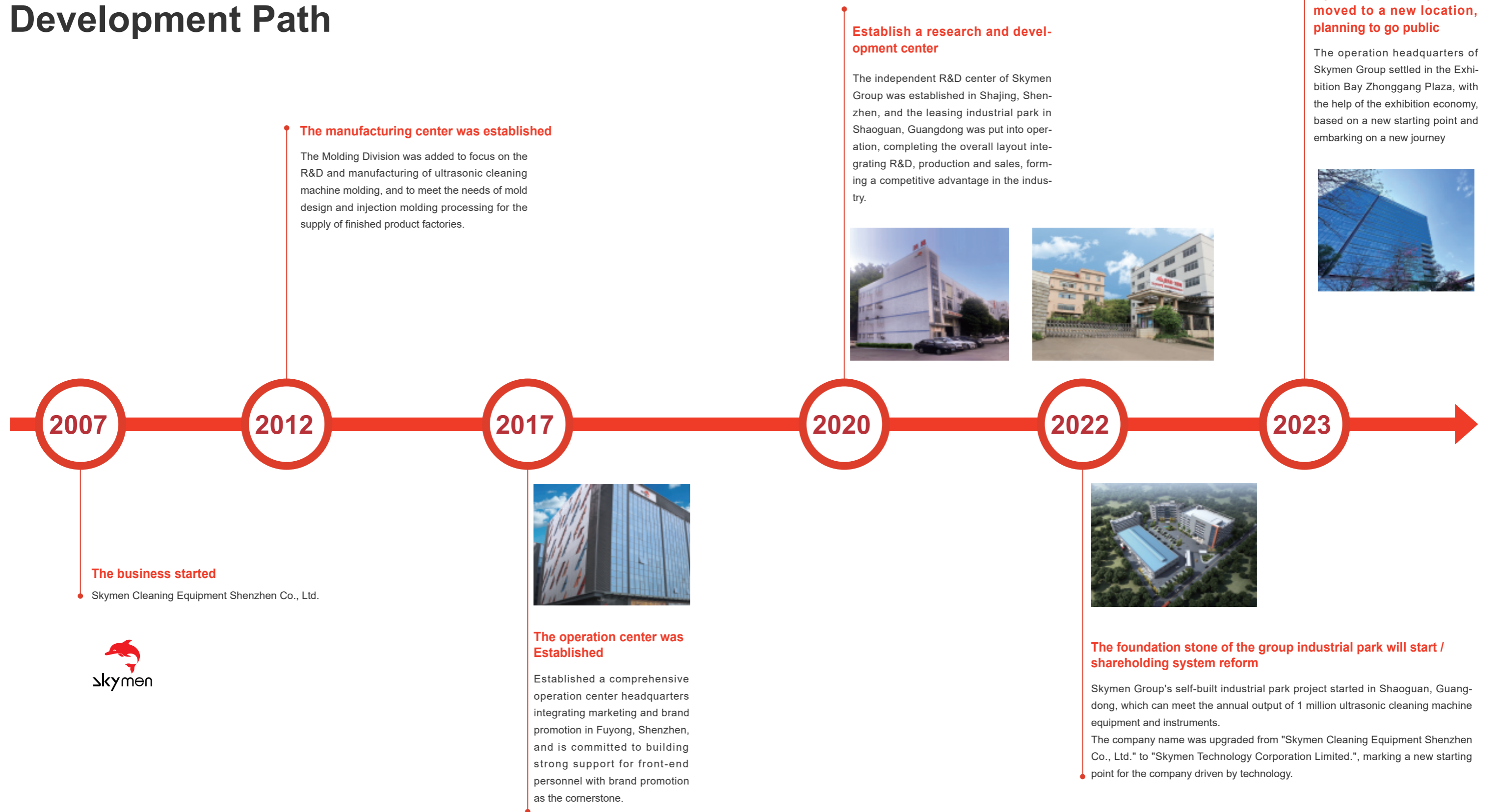
The R & D center is located in Taifeng Industrial Zone, Jian'an Road, Bao'an District, with an area of 3000+m² . It has introduced ultrasonic cleaning technology and design concepts from Europe, America, Japan and other countries, relying on domestic professional research institutions, and independently innovated. The core members of the technical and management team of Skymen R&D Center have more than decades of industry experience and have rich theoretical and practical experience. Skymen has not only gathered a lot of talents in the field of ultrasonic technology externally, but also trained many high-tech personnel in the field of ultrasonic product innovation and manufacturing internally . So far, it has more than 100 patents, many of which are from the United States, Europe, Japan and other foreign countries . patent certificate.



Shaoguan Wujiang · Production Base

Skymen Shaoguan Industrial Park is located on Muxi 8th Road, High-tech Zone, Shaoguan City. It is wholly-owned by the group. The total planned construction area exceeds 35,000+m², and the annual output value of ultrasonic cleaning machines can reach more than 1 million units. The base is mainly responsible for the production and R&D tasks of the group. It will be settled in the Ultrasound Medical Device Engineering Research Center of Skymen Acoustics Group, and will introduce automated production equipment and intelligent storage facilities. It is committed to building Skymen Shaoguan Industrial Park into an ecological, energy-saving, low-carbon An industrial pacesetter of environmental protection and technological intelligence.

Development Path



Certificate Of Honor

220+

More than 220 patents and Copyrights have been applied for by 2022

The company's various business activities have been carried out in an orderly manner. It has been fully recognized by relevant departments at all levels and all walks of life. Dozens of honorary qualifications awarded by the state and the province, such as contract-abiding and credit-worthy enterprises, and many research and development projects have been supported by the Provincial Science and Technology Department.



New Energy/photovoltaic Industry



The photoelectric conversion industry chain formed by the application and development of silicon materials is called "photovoltaic new energy industry", including the production of high-purity polysilicon raw materials, solar cell production, solar cell module production, and related production equipment manufacturing . In the manufacturing process of these related equipment, dirt will inevitably be generated, which will affect the service life and efficacy of the parts. The emergence of ultrasonic cleaning has solved this fundamental problem and greatly promoted the development of the new energy/photovoltaic industry .

Cleaning object

Solar panel, single crystal/polysilicon sheet, stamping/pull-up shell, PCB board, IC chip, audion, reflector, capacitor, connector, picture tube, connector, adapter, etc.



Partner



Case presentation

JM-7160TD

Seven-tank automatic ultrasonic cleaning machine

Cleaning workpiece:
aluminum alloy cover plate

Clean dirt:
remove aluminum shell oil, surface metal shavings



Sunwoda Electronic Co., Ltd.

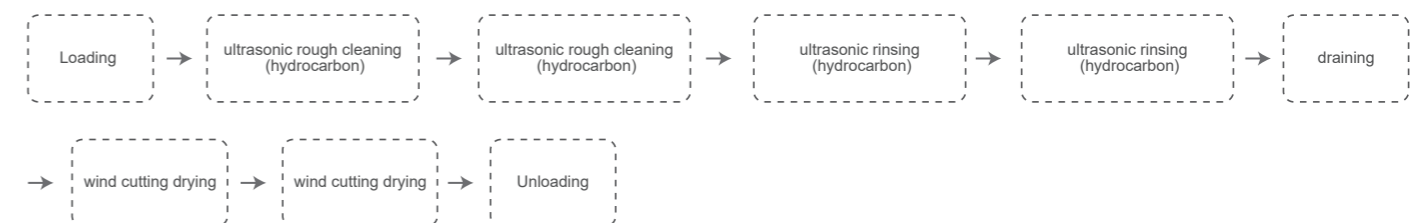


Features

1. Equipped with multi-tank spray function, it can quickly peel off the oil and dirt on the surface of the cleaned work-piece and in the crevices.
2. Equipped with detachable bag type dual stage filter, easy to operate and flexible, with good filtering effect.
3. It has multiple high-pressure wind cutting and drying tanks to quickly dry the workpiece to be cleaned.
4. The equipment has a circulation filtering function, which increases the service life of the bath liquid and reduces the cost of cleaning agents.
5. The heating equipment is equipped with acid-resistant and fluorine-resistant treatment.



Process flow



Auto Parts Industry



For auto parts is mainly suitable for: supercharger, shock absorber parts, aluminum, iron, copper die castings, ductile iron castings, cylinder blocks, shells, piston rings, hydraulic parts, compressor parts, etc. Cleaning of parts . Ultrasonic waves can enter tiny cracks and blind holes , peel off oil stains and residues without damaging auto parts, and meet the requirements of high efficiency, cleanliness , environmental protection , and beauty . The emergence of ultrasonic cleaning machine technology has greatly promoted the further development of the automotive industry .

Cleaning objects

Cylinder head, gear, supercharger, nozzle needle, spark plug, nozzle, tire, valve body, drive shaft, compressor parts, chassis components, etc.



Partner



Case presentation

JM-6300SD

Walking Spray Washing and Drying Machine

Clean dirt:
integrated shell removes oil and impurities

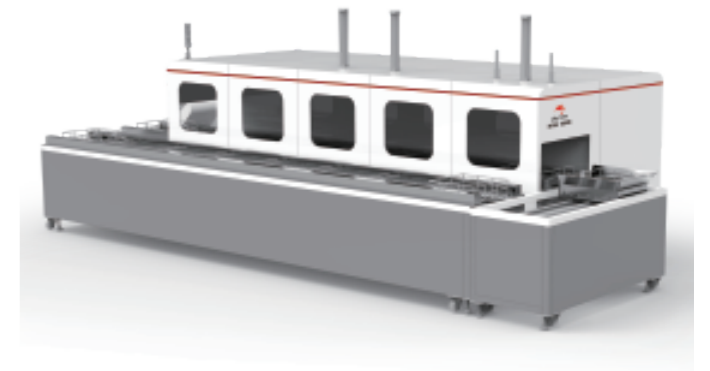


Guangdong Hongteo Accurate Technology Co.,Ltd

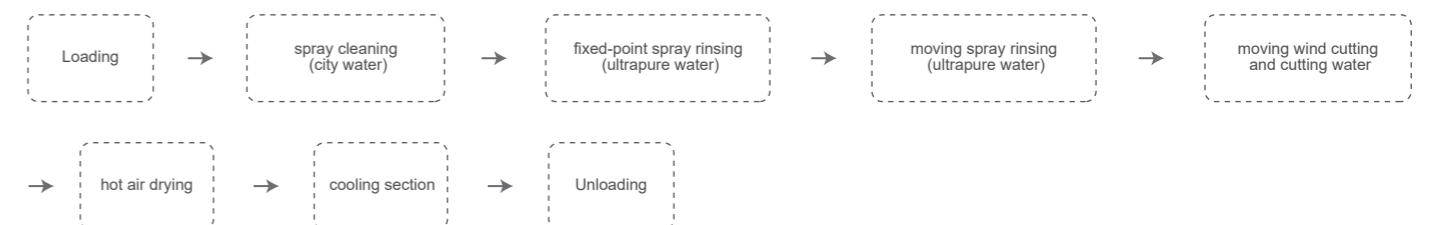


Features

1. The equipment is equipped with an overload protection device. Once there is an abnormality, immediate Alert.
2. According to the different shapes of workpieces, 1-to-1 fixed-point fixed-hole spraying and drying can be set in a targeted manner.
3. The equipment control program can be encrypted to prevent unrelated personnel from modifying parameters to affect the cleaning effect.
4. The liquid storage tank is equipped with an oil skimmer, which can effectively separate dirt such as oil and impurities.



Process flow



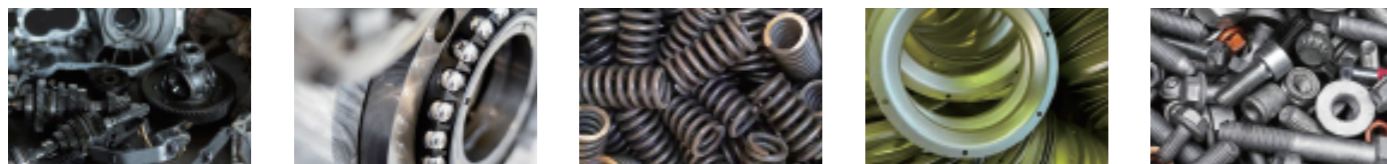
Mechanical Hardware Industry



The mechanical hardware industry is one of the most widely used industries for ultrasonic cleaning. In the manufacturing process of the mechanical hardware industry, the surface of the parts will be stained with different dirt, such as cutting oil, wax, glue, dirt, solder, etc., and the workpiece will be rusted to varying degrees after a long time. Ultrasonic cleaning machine For the above dirt, it can achieve a very good cleaning effect. It can not only clean powerfully, but also finely clean. According to the requirements of different hardware, different cleaning schemes can be formulated.

Cleaning objects

Bearing, spring, nozzle, steel pipe, screws, hardware tools, machined parts, hydraulic components, turbine blades, mechanical parts, aluminum alloy/stainless steel mold, etc.



partner



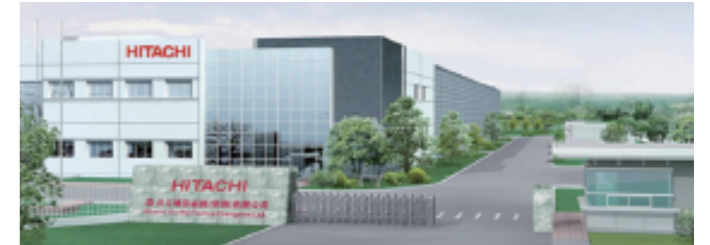
Case presentation

JM-7108AD

Seven-slot Automatic Ultrasonic Cleaner

Cleans dirt: cutting oil, dust, nes

HITACHI
Inspire the Next
Optorun(Shanghai)co.ltd

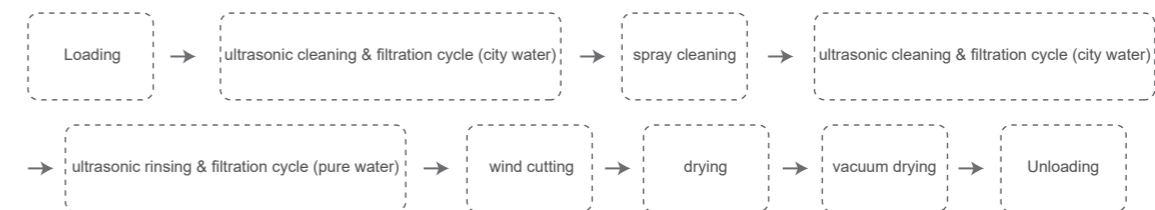


Features

1. It has three drying methods (wind cutting, drying, vacuum drying) to achieve the purpose of rapid drying of workpieces.
2. The inner tank is made of 316LEP stainless steel.
3. The filtration circulation system is equipped with a high-precision filter with a filtration accuracy of 0.2μ.
4. Equipped with two sets of high-efficiency air filters to filter dust in the air, prevent secondary pollution of workpieces, and create a clean drying space.
5. On-line detection of PH and resistivity, the threshold can be set independently, and an alarm will be issued if it exceeds.



Process flow



Optics And Optoelectronics Industry



After the optical lens has undergone rough grinding, fine grinding, polishing, edging and other processes, with the help of the "cavitation effect" cleaning technology of the optical ultrasonic cleaning machine, the cleaning problems before lens coating, gluing, and assembly can be solved. Optical ultrasonic cleaning machine can be widely used in: cleaning of glass lenses, resin lenses, microscopes, telescopes, camera lenses, coated glass, prisms, lenses and other optical products.

Cleaning objects

Lens, filter, prism, laser mirror, camera lens, glass lens, resin lens, mobile phone cover plate, plate glass toughened film, microscope, etc.



Partner



Case presentation

JM-10108SD

Ten-Tank Automatic Ultrasonic Cleaning Machine

Clean dirt: dust, abrasive fluid



Cari Zeiss Vision(China)ltd.

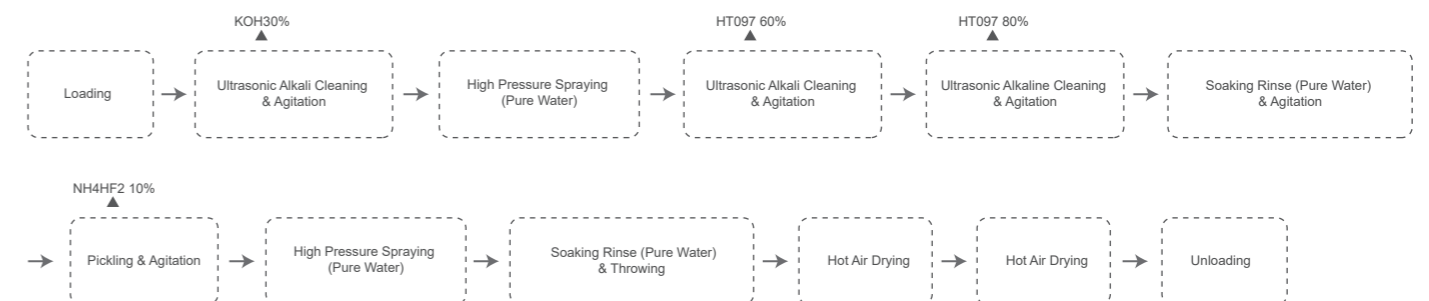


Features

1. Three cleaning programs can be set for selection to meet different cleaning requirements, such as alkali cleaning, pickling cleaning, etc.
2. The inner tank is made of SUS316L material, and the surface of the vibration plate is chrome-plated to prevent corrosion of the tank body.
3. The cleaning tank is equipped with agitation function, which can increase the friction between the workpiece surface and the liquid, and improve the cleaning effect.
4. The pressure difference gauge is installed before and after the pipeline filter, and the pressure difference value can be set independently, and the alarm will be automatically alarmed if the value exceeds the value.
5. The equipment is equipped with a ventilation device, which can solve problems such as odor overflow.



Process flow



Rail Transit/aerospace Industry



Ultrasonic cleaning machines for rail transit and aerospace are suitable for cleaning most product parts, such as helping parts remove abrasive and polishing residues, fine sand, and dust; removing grease, coolant, polishing paste/wax, and abrasive paste/wax; Burrs; removal of carbon deposits, etc. Widely used in the cleaning of bearings, brake valves, engines, springs, shock absorbers, radiators, internal combustion engines and other aircraft, spacecraft, subways, and high-speed rail parts. It has the advantages of high cleanliness, high speed, and low cost. Therefore, ultrasonic cleaning The application of technology in rail transportation and aerospace industry is more and more extensive.

Cleaning objects

Engine, pneumatic components, brake valves, fuel injectors, engines, exchangers, hydraulics, landing gear components, gears, precision parts, etc.



Partner



Case presentation

JM-8760AD

Eight -Tank Automatic Ultrasonic Cleaning Machine

Cleaning dirt: degreasing, degumming



Crrc Corporation Limited

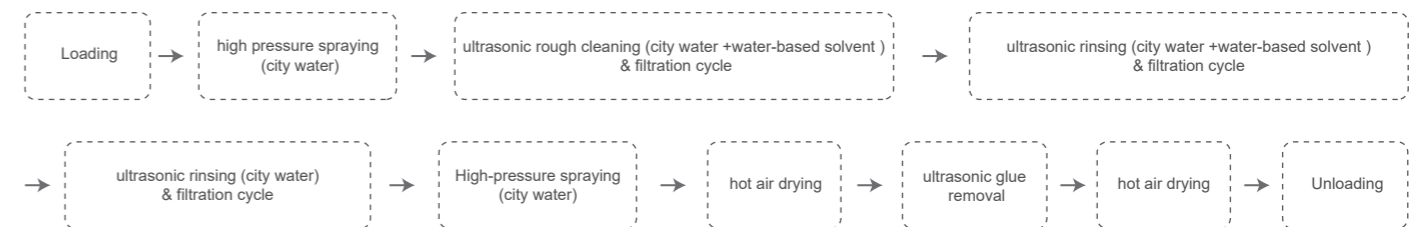


Features

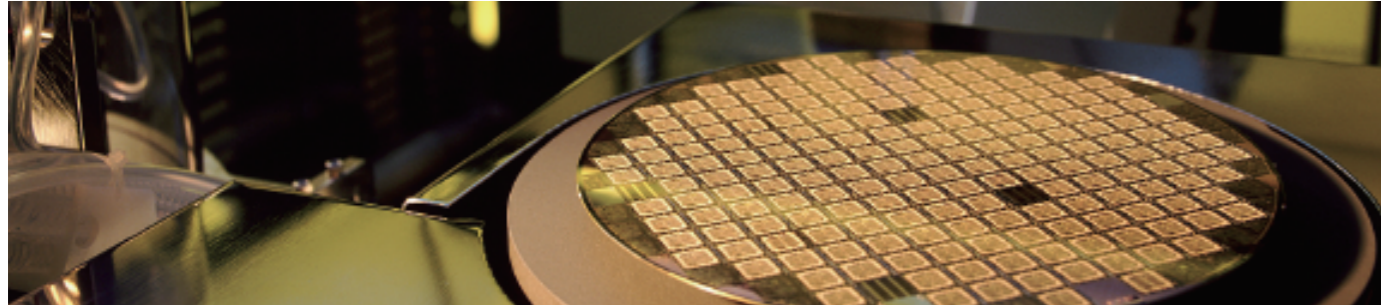
1. The equipment is equipped with high and low positions for rehydration, low replenishment and high stop, and automatic rehydration.
2. The equipment is equipped with an oil-water separation device, which can collect and treat the oily dirt.
3. The glue removal tank adopts condensing coil circulation, which can effectively control the temperature of flammable and explosive cleaning agents and ensure a safe operating environment.
4. There is a liquid intake port behind each filter system, which is convenient for personnel to extract the filtered liquid for testing.



Process flow



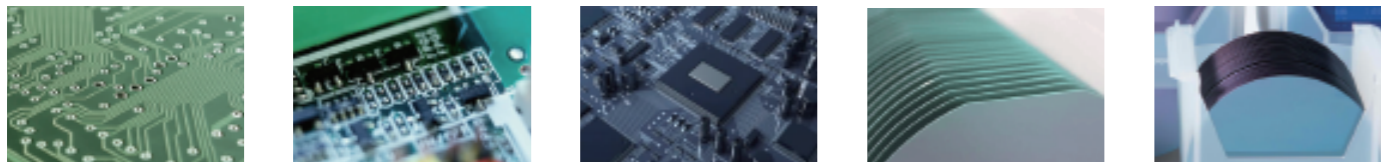
Semiconductor/electronic Industry



Semiconductor ultrasonic cleaners can be widely used for cleaning in the process of semiconductor production and processing. Such as crystals, resistors, capacitors, PCB boards, IC chips, connectors, connectors, adapters, silicon wafers, triodes, diodes, electronic circuit boards, computer motherboards, piezoelectric ceramics, picture tubes, electric vacuum devices and other electronic devices .

Cleaning objects

Semiconductor chips, crystals, diodes, resistors, PCB boards, circuit boards, MEMS devices, electronic components, computer motherboards, parts and shell seats, etc.



Partner



Case presentation

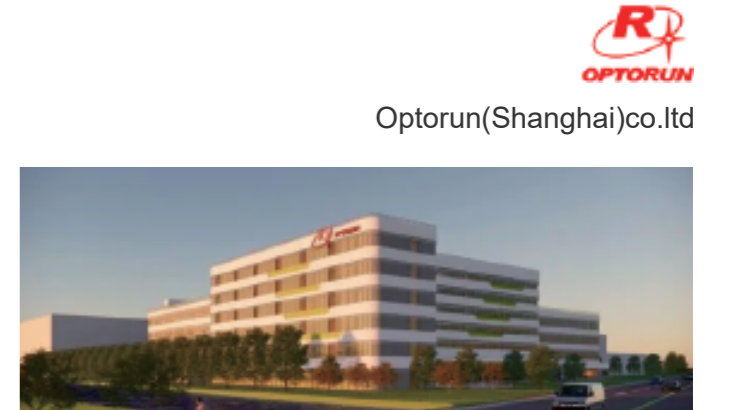
JM-5024AD

Five- tank automatic ultrasonic cleaning machine

Clean dirt: remove dust

Features

1. The equipment is equipped with Agitation function, which can efficiently remove the dirt on the surface of the workpiece and improve the cleaning effect.
2. Combination of four drying methods (slow lift-out + rotary drying + hot air drying + vacuum drying), quickly drying the workpiece.
3. The equipment is equipped with a high-efficiency air filter and an exhaust fan to ensure clean air in the tank and solve problems such as odor overflow.
4. The pressure difference gauge is installed before and after the pipeline filter, and the pressure difference value can be set independently, and the excessive value will automatically alarm.



Process flow



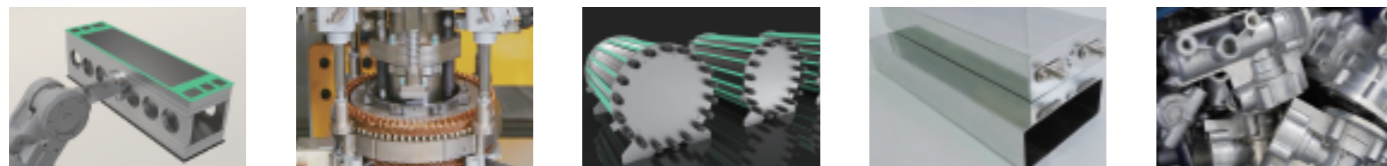
Hydrogen Energy Industry



As a secondary energy source, hydrogen energy has a wide range of sources. It can not only be produced by reforming fossil energy such as coal, oil, and natural gas, biomass pyrolysis, or microbial fermentation, but also from coking, chlor-alkali, steel, metallurgy, and other chemical by-products. Hydrogen is produced, but in the process of producing and processing hydrogen energy equipment, the required accessories will be more or less dirty. The ultrasonic cleaning machine can solve the oil, dust and other dirt on the surface of the required accessories, and is widely used in the cleaning of bipolar plates, unipolar plates and other parts in the hydrogen energy industry.

Cleaning objects

Bipolar plate, unipolar plate, battery case, bearing, nut, engine, gear, hydrogen production accessories, etc.



Partner



Case presentation

JM-5156SD

Five- tank automatic ultrasonic cleaning machine

Clean dirt: remove dust, particles and oil

Features

1. The liquid storage tank is equipped with a steam heating coil and a constant temperature controller.
2. Each tank drain is equipped with a detachable anti-blocking net to prevent small parts from falling into the pipeline and blocking the pipeline.
3. The ultrasonic vibration plate adopts the input type vibration plate, and the vibration form is bottom vibration + front and rear side vibration.
4. The high-purity water dehydration process can quickly lose surface moisture and achieve high surface cleanliness.



Wuxi Pioneer Intelligent Equipment Co., Ltd.



Process flow

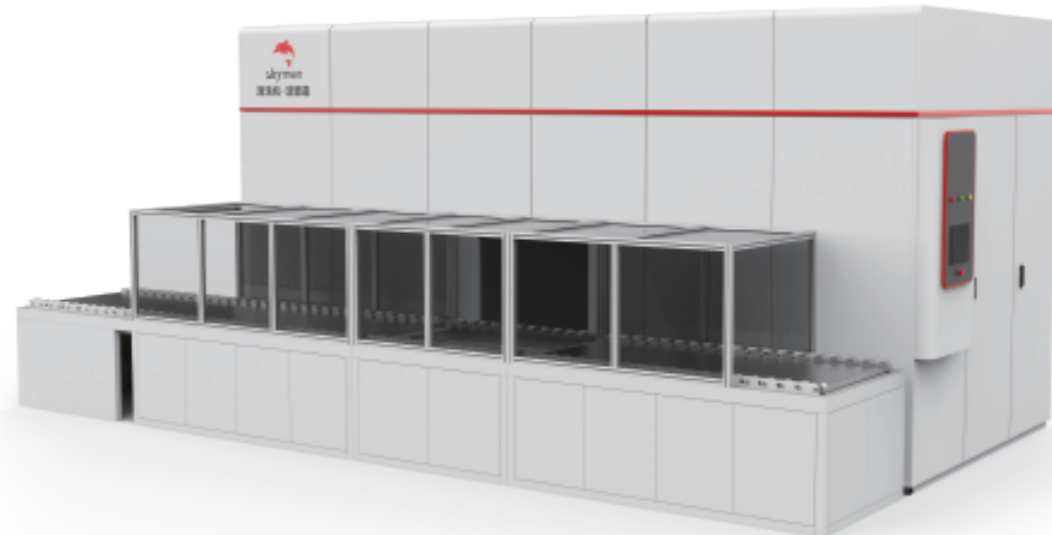


Single Station Vacuum Hydrocarbon Cleaning Equipment

The single-station vacuum cleaning machine is mainly a high-intelligence and high-precision cleaning equipment designed and manufactured for customers' products. The main structure is a main cleaning room and three different solvent storage tanks. Ultrasonic cleaning is used, supplemented by other processes, such as spraying and drying to clean the dirt on the product, improve the cleanliness of the customer's product, and meet the use requirements.

Features

- The whole cleaning process runs in a vacuum environment, which greatly reduces the loss of cleaning agent.
- Vacuum ultrasonic cleaning, which has an obvious cleaning effect on workpieces with blind holes.
- Indirect heating with distilled water steam, no carbon deposits, no emissions.
- Fully automatic intelligent operation, realizing remote terminal monitoring.
- The equipment is ergonomically designed and has good operability.
- Equipped with environmentally friendly and energy-saving system technology, which reduces the cost of machine use.
- The combination of different processes can be selected to quickly clean the workpiece.



Multi-Station Vacuum Hydrocarbon Cleaning Equipment

The multi-station vacuum hydrocarbon ultrasonic cleaning machine is an ultrasonic cleaning equipment developed and designed for hydrocarbons as the cleaning medium. By combining ultrasonic cleaning technology with vacuum technology, it can give full play to the cleaning advantages of hydrocarbon solvents and achieve more economical, more efficient and safer cleaning purposes.

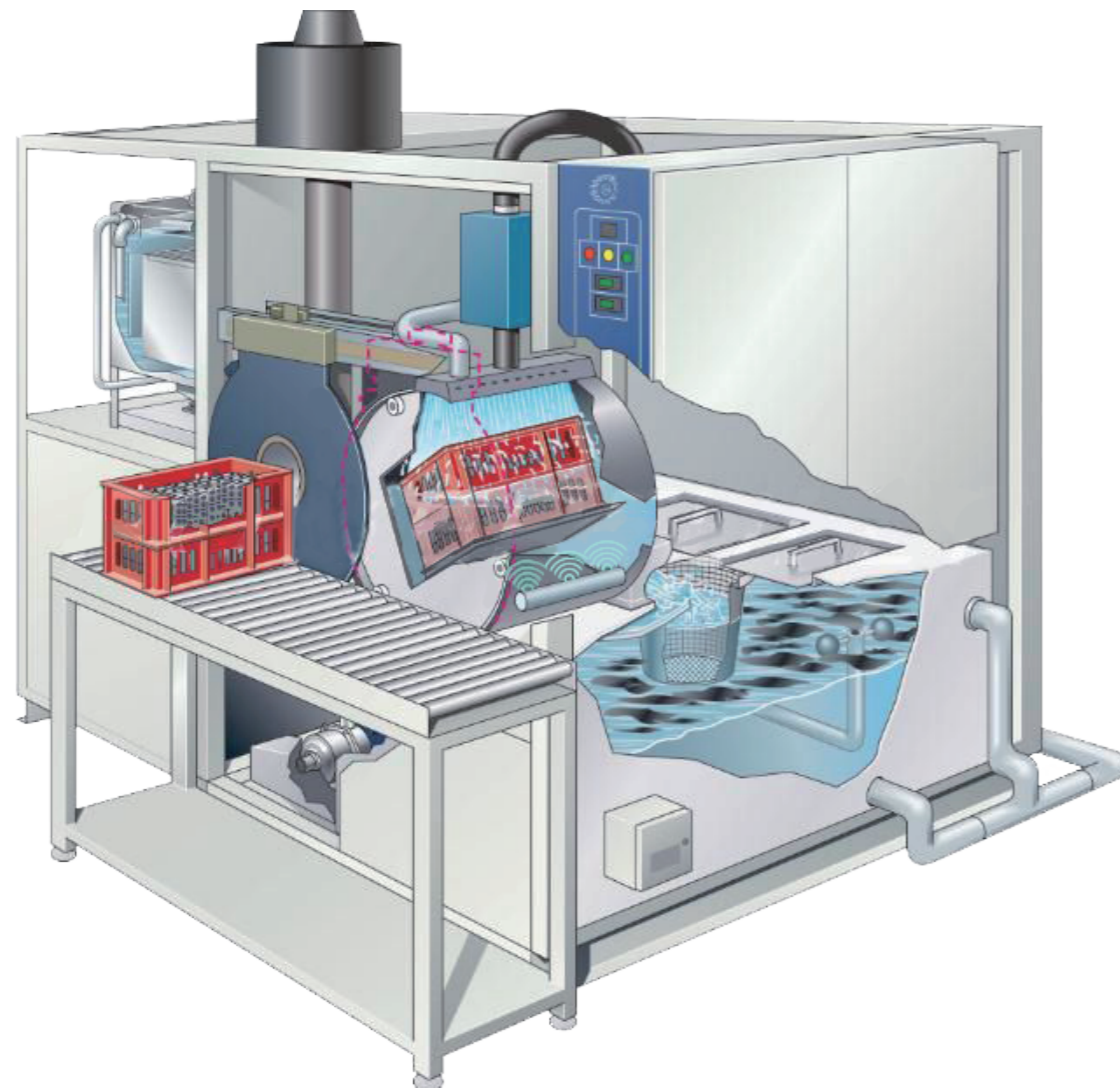
Features

- Equipped with a filtration circulation system, which can separate hydrocarbon solvents from dirty liquids and reduce emissions for environmental protection.
- Various functions (agitation, rolling, filtering) can be configured etc.), to speed up the cleaning of the workpiece and improve the cleanliness of the surface of the workpiece.
- Vacuum ultrasonic cleaning, the cleaning effect on workpieces with blind holes is obvious.
- The equipment is fully automatic, the process is monitored in real time, the technology is advanced, the operation is stable, and the operation is convenient.
- Equipped with a distillation regeneration system, the recovery rate of hydrocarbon solvents is as high as 98%, reducing its use cost.



High Pressure Spray Cleaning Machine

The high-pressure spray cleaning machine is mainly composed of a motor, a high-pressure water pump, and a liquid storage tank. The working principle is to use ultra-high pressure spraying nozzles to peel off particles, dirt, and debris on the surface deep holes and sink holes. The whole equipment is very simple in operation, the failure rate is very low during use, the cleaning effect is uniform, and it can work continuously in large quantities. It is suitable for the cleaning of different types of die castings. According to the different shapes of the products of the enterprise, non-standard spray cleaning machines, tunnel spray cleaning machines, and crawler cleaning machines can be customized for them.



Features

- The nozzles inside the cleaning chamber can be arranged up and down, left and right, sideways and fixed points according to the needs, ensuring comprehensive cleaning without dead ends.
- Equipped with a filtration circulation system to maximize the use of cleaning agents and greatly reduce cleaning costs.
- The PLC industrial touch screen terminal control system only needs one person to operate and clean, which is simple and convenient.
- The cleaning speed is fast, the cleaning effect is perfect, and it can be operated continuously in large quantities.

Cleaning objects

Complex hardware, die-cast aluminum parts, stretched parts, auto parts, pipe fittings, bearings, etc.

Process flow

Loading → spray cleaning (city water) → spray rinsing (city water) → compressed air cutting water → hot air circulation drying → Unloading



Tunnel Cleaning Line And Drying Line Ultrasonic Cleaner

The through-type ultrasonic cleaning machine uses a special chain and conveyor belt to transport workpieces. It has the advantages of multi-station, full-featured, reasonable structure, convenient operation, and good cleaning effect, which can greatly improve the quality and efficiency of workpiece cleaning .

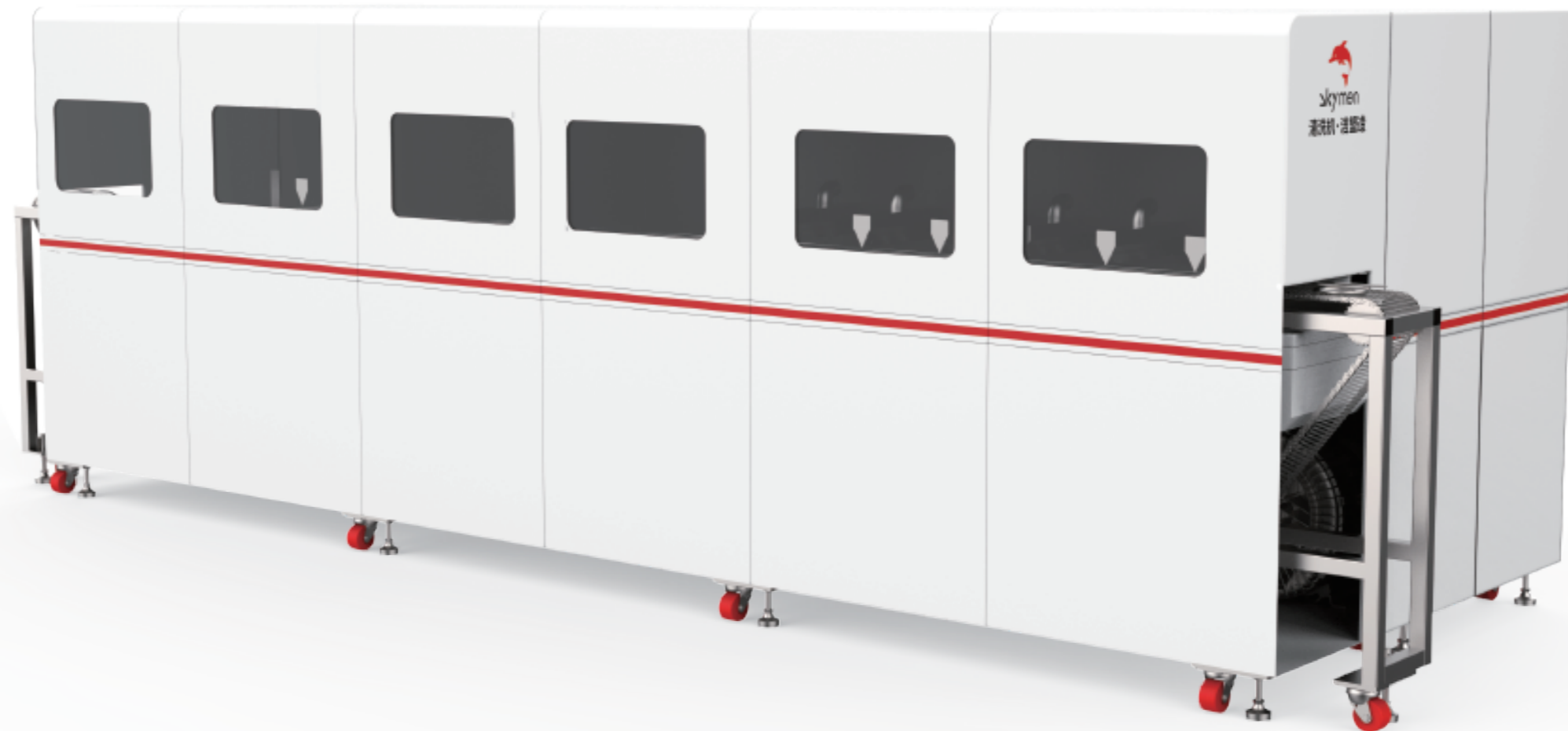
As a continuous conveying cleaning equipment , the pass-through cleaning machine puts the workpieces on the conveyor belt manually, and the workpieces are automatically cleaned through each cleaning room until the end. The cleaning liquid can automatically flow into the liquid return tank, and can be recycled after purification.

Features

- The parts are placed directly, the front and rear processes are automatically connected, the transmission speed is adjustable by frequency conversion , and the degree of automation is high
- Large cleaning output, many varieties, low equipment investment cost
- Easy to operate, can reduce the cost of manual cleaning for enterprises
- According to different decontamination requirements, corresponding processes can be configured for efficient cleaning
- The equipment can be configured with a circulating filtration system, which greatly improves the efficiency of liquid utilization

Cleaning objects

Suitable for all kinds of hardware parts, die-casting parts, hydraulic parts, gears, bearings, auto parts, etc.



Process flow

Feeding → ultrasonic cleaning (city water) → ultrasonic rinsing (city water) → spray cleaning (city water) → Compressed air wind cutting → hot air drying → output

Single Tank Ultrasonic Cleaning Equipment



Non-standard Customized Ultrasonic Cleaning Machine



Multi-tank Ultrasonic Cleaning Equipment



Ultrasonic Vibrating Rod And Vibrating Plate



Partners



Carl Zeiss&Skymen Group



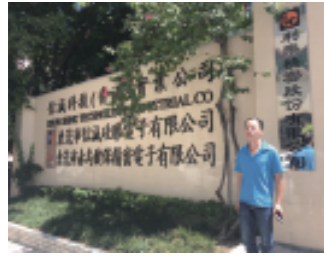
CRRC & Skymen Group



Sunwoda Electronics & Skymen Group



Foxconn Group & Skymen Group



Tetra Pak Precision & Skymen Group



Siqun & Skymen Group



China Railway&Skymen Group



Zhuhai Huahui Intelligent Manufacturing&Skymen Group



Han's Laser&Skymen Group



JMA Aluminum&Skymen Group



Gree Precision Mold&Skymen Group



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