

Stainless Steel Automatic Ultrasonic Cleaning Machine With PLC Control

Basic Information

- Place of Origin:
- Brand Name:
- Skymen
- CE/PSE/FCC/ROHS/ISO9001 Certification:

1

JP series

99-3500

Wooden Box

7-15 days

IN STOCK

China

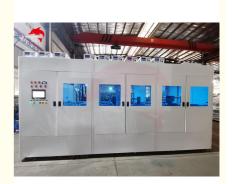
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms: T/T LC
- Supply Ability:



Product Specification

- Control Method:
- Frequency:
- Product Name:
- Power:
- Material:
- · Capacity:
- Ultrasonic Power:
- Temperature Range: •
- Highlight:

- PLC Control 25/28/40/68/80/120KHz
- Automatic Ultrasonic Cleaner
- 220/380V
- Stainless Steel
- - 540L 0-5400W/Support Customized
 - 20-80°C
 - PLC Control Automatic Ultrasonic Cleaning Machine
 - , 540L Automatic Ultrasonic Cleaning Machine, PLC Control Stainless Steel Ultrasonic Cleaner



Our Product Introduction

Stainless Steel Automatic Ultrasonic Cleaning Machine With PLC Control

Automatic Stainless Steel Ultrasonic Washing Machine With Siemens PLC Control & 220/380V Power Supply

Automatic Ultrasonic Cleaning Line Machine's Principle

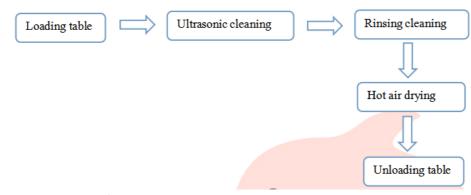
The principle of fully automatic ultrasonic cleaning machine is mainly to transform the power of the power, the sound of the power ultrasonic frequency source, and convert it into a mechanical vibration, and radiate the cleaning liquid in the groove to the ultrasonic by cleaning the groove wall. Due to the radiated ultrasound, the micro -bubbles in the liquid in the groove can keep vibration under the action of sound waves. When the sound pressure or the sound strength reaches a certain degree, the bubbles will swell rapidly, and then they suddenly close. In this process, the instantaneous shock waves of the bubbles were closed, which caused the pressure of 1012-1013Pa around the bubbles and the temperature adjustment. Steam -type emptiness has a direct impact on dirt. On the one hand, the adsorption of the surface of the dirt and the surface of the cleaning part, on the other hand, can cause the fatigue destruction of the dirt layer and be separated. Drilling the "vibration vibration and falling off the dirt layer. Due to the vacuum effect, the two liquids quickly dispersed and emulsified in the interface. When the solid particles were wrapped in oil and attached to the surface of the cleaning piece, the oil was emulsified and the solid particles fell off by themselves. When spreading in the cleaning solution, the acoustic pressure of positive and negative transformations will be generated to form a shooting flow and impact cleaning parts. At the same time, because the non -linear effect will generate sound and micro sound flow, ultrasonic vacuum will produce high speed on the solid and liquid interface. Microcarflow, all these functions can destroy dirt, remove or weaken the boundary dirt, increase stirring and diffusion, accelerate the dissolution of soluble dirt, and strengthen the cleaning effect of chemical cleaning agents. It can be seen that any of the places where the liquid can be immersed and the sound field exists has a cleaning effect, and its characteristics are suitable for cleaning of parts with very complicated surface shapes. Especially after using this technology, the amount of chemical solvents can be reduced, thereby greatly reducing environmental pollution.

Automatic Ultrasonic Cleaning Line Machine's Specification:

	Model	JTM-4096AD			
	1st Chamber	Function	Ultrasonic cleaning + Filter+ Hot water cleaning		
		Ultrasonic Frequency	28/40kHz (other frequency can be customized)		
		Tank Material	SUS 304 (SUS 316 can be customized)		
2		Thickness of tank	2mm		
		Inner tank dimension	700*500*500mm		
		Tank Capacity	175L		
		Transducer	48pcs		
		Ultrasonic Power	2400W		
		Heating Power	6000W		
		Time setting of Ultrasonic	0~99 hours		
		Temperature setting	Room temperature ~ 95°C adjustable		
		Drain value	Yes		
		Water inlet/outlet	Yes		
		Filter	1 set, connect with 1st tank		
		Size of filter tank	500*300*300mm		
		Filtet element precision	5/10µ		
		Generator	1pcs		
		Generator power control	2400W		
		Basket	Yes		
		Basket load	150KG		
	2nd Chamber	Function	Ultrasonic cleaning + Bubbling + Hot water cleaning		
		Ultrasonic Frequency	28/40kHz (other frequency can be customized)		
		Tank Material	SUS 304 (SUS 316 can be customized)		
		Thickness of tank	2mm		
		Inner tank dimension	700*500*500mm		
		Tank Capacity	175L		
		Transducer	48pcs		
		Ultrasonic Power	2400W		
		Heating Power	6000W		
;		Time setting of Ultrasonic	0~99 hours		
		Temperature setting	Room temperature ~ 95°C adjustable		
		Drain value	Yes		
		Water inlet/outlet	Yes		
		Bubbling system	Yes, air compressor is provided by user		
		Generator	1pcs		
		Generator power control	2400W		
		Basket	Yes		
		Basket load	150KG		
	3rd Chamber	Function	Hot air drying tank		
		Inner tank dimension	600*500*450mm		
;		Turbines power	750W		
		Dryer power	3000W		
4	Working way of machine	Working way	Full automatic		
		Loading and unloding			
		platform	Yes		
ŀ		Martin and the short	Du mashaniaal ann		
		Moving way of basket	By mechanical arm		



Automatic Ultrasonic Cleaning Line Machine's Cleaning process: (cleaning direction: from left to right)



Automatic Ultrasonic Cleaning Line Machine's Working Way

The entire process of putting the basket into the cleaning tank, removing the basket and moving the basket between the tanks is automatically completed by a single-arm manipulator. This ultrasonic cleaning machine has a total of 3 working tanks, plus 1 loading and unloading station, a total of 4 stations .

Automatic Ultrasonic Cleaning Line Machine's Same series with different size for your choice:

	Size of every	Tank	Ultrasonic	Heating Power of	Heating Power	Transducer
Model	tank	Volume	Power	Ultrasonic tank	of drying tank	
	L*W*H (mm)	(L)	(W)	(W)	750W	(pcs)
JTM-3024AD	500X300X25 0	38L*3	600W	1500W*2	750W	24pcs
JTM-3036AD	500X350X30 0		900W	1500W*2	750W	36pcs
JTM-3048AD	550X400X35 0	1	1200W	3000W*2	750W	48pcs
JTM-3060AD	550X450X40 0	99L*3	1500W	3000W*2	750W	60pcs
JTM-3072AD	600X500X45 0	135L*3	1800W	4500W*2	750W	72pcs
JTM-3096AD	700X500X50 0	175L*3	2400W	6000W*2	750W	96pcs
JTM-3120AD	800X600X55 0		3000W	6000W*2	750W	120pcs
JTM-3144AD	1000X600X6 00		3600W	9000W*2	750W	144pcs
JTM-3216AD	1000X900X6 00	540L*3	5400W	18000W*2	1100W	216pcs
JTM-3288AD	12000*1000* 800	960L*3	7200W	24000W*2	1500W	288pcs

Automatic Ultrasonic Cleaning Line Machine's Images



THREE BASE 三大基地



的复办公室。成立集新售、品牌、

TOTAL





1安区建安路泰丰工业区。其要考 1清洗技术和设计理念。以属内1 2. 就声波技术领域人才,更是在内部地



回位于韶关市高新区沐溪八路,由集团全货筹建,总 超35000+nf,生产超声波清洗机年产值可达100万

于把活望超关户业园打造成生态节能、低碳环保、 181218-182







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2活动有许开展,和得了优用的经营业绩,得到各级/ 自各界的充分认可,先后获得得国家高新技术企业; 精祥新企业,广东省守会问题该用企业等国家和省份

(armas 产学研基地





#ME-2008/142

New energy/photovoltaic industry 新能源/光伏行业



应用开发形成的元电转换产业链条称之为"元 用寿命及功效,超声波清洗的出现解决了这一根本问题。极 大程度上推进了新能源/世代行业的发展

清洁对象 Centing chiect

太阳能电池板: 单晶 / 多晶硅片 : 沖圧 / 拉开壳, PCB 板, IC 芯片、三根管, 反射器, 电容, 這接件, 證保管, 接插件, 锌接器等, Solar pone, single control/poly/licon theet, stomping/pull-up intel, PCB boost IC chin, audion, educate, concentra concentration in the





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案例展示 Case presentation

JM-7160TD 七槽式全自动超声波清洗机

清洗工作: 铝合金盖板 清洗污垢: 含於铝壳油污、表面金属属 Clean dit semore aluminum shell oli surface-

设备特点 Features

1. 配有多槽喷淋功能,能快速到落被清洗工件表面,细植中 的油渍、肥汤等。



1. Equipped with multi-fank spray function, if can quickly peel of the oil and dirt on the surface of the cle detachable bog type dual stage titles early to specifie and flexible, with good titlering effect, high-pressure wind outling and drying tanks to quickly dry the waitpiece to be cleaned. I has a circulation filtering function, which increases the service life of the bath liquid and reduc 2.50,/pp 3.8 hos #

工艺流程 Process flow

 ≥H instrum
 →
 MAXED.RED instrum
 → RORT → RORT → 7H units.deplays

SUMJOOR KIEI的 放旺达电动汽车电池有限公司

I JAme



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Auto parts industry 汽车零配件行业



スキ基件超声波流光主要适用于:增石器,减高器等件。 For outprovisis many Judge to compare the second se

清洗对象 Cleaning objects





#845-1088/1479

Mechanical hardware industry

机械五金行业



机械五金行业是应用超声波清洗最广的行业之一。在机械 五金行业生产制造过程中,零部件表面会沾有不同污垢。比 如切影油、蜡、胶、脏污、焊铝等,而且工作用久了,也会有不 同程度的生锈,超声波清洗机针对以上污垢,可以达到非常 好的清洗效果。既能强力清洗。又能稀细清洗。根据不同的 五金件的要求。来制定不同的清洗方案。

achieve a very good cleaning effect it can not only fully, but also finely clean. According to the re-

清洗对象 Ceorie

轴承、弹簧、喷头、钢管、螺丝、五金工具、机加工作、液压元件、涡轮叶片、机械零部件、铝合金 / 不锈钢模具等





Optics and optoelectronics industry

光学光电行业



ting gluing, and assembly can be solved. Optical ultrason aring machine can be widely used in: cleaning of glo les, texin lanses, microscopes, telescopes, camera lans

清洗对象 Cleaning objects

透镜、送光片、棱镜、激光反射镜、相机镜头、玻璃镜片、机窗镜片、手机直板、平板被滚钢化器。显微镜头等。



案例展示 Case presentation

JM-6300SD 步进式喷淋清洗干燥机

清洗污垢:集成壳体除油、杂质

设备特点 Features

行有效分离。

1.设备装有过载保护装置,一旦有异常,立即按管 2.可根据工件形状不同,针对性的设置一对一定点定孔喷 3.设备控制程序可加密,能防止无关人员绊改设定的参数。 影响最终效果



The los and a common and other

4、储液槽设密宫式结构,可对清洗出来的油、杂质等污垢进

equipment is equipped with an overload protection device. Uncer there is an acromoting similarity and experimental experimenta experimental experimental experimental experimental experime

工艺流程 Process flow



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案例展示 Case presentation

七槽式全自动超声波清洗机

清洗污垢:切附油、灰尘、细屑

速干燥的目的。 2.內槽材质使用 316LEP 处理不锈钢。

3.过滤循环系统配置高精度过滤器。过滤精度为0.2µ。

设备特点 Features

IM-7108AD

HITACHI 日立(中国)有限公司

#84-288/107







If has these drying methods (unid cutting, drying, secture drying) to obtaine the purpose of kapes approve wave______.
 If he more that is mode of 15(d) if a drainess their.
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工艺流程 Process for



###L-2008/002 1000 卡尔泰司光学(中国)有限公司

JM-10108SD 十槽式全自动超声波清洗机

清洗污垢: 双尘、研磨液

案例展示 Case presentation

设备特点 Features

1.可设置3种清洗程序来达到不可清洗要求。如碱洗.放洗等 內槽使用SUS310.材质, 偏板表面玻璃处理, 预防槽体腐蚀。
 消洗槽设有预动效果,可以增加工作表面与液体的磨擦。 3. 清洗除益有知业效果,可以增加工作表面与液体的能源。 建高清洗效果。 4. 智道过道器机想安锅压紧表,可自主设定压紧低,影但有 自动接管。 5.设备装有抽掉风装置,可解决气味外运等问题。

These cleaning programs can be set for selection to meet diffe

earing tork is equipped with optitrion function, which can increase the tection between the workpiece surface and the logist power the classing effect.

工艺流程 Process fow



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HERE- HERE / ULTRADONIC CLEANER - MADE BY SEVERY



RME - 2008 / IATMAIONE CLEANER-WALK BY S

Rail transit/aerospace industry 轨道交通/航空航天行业



清洗对象 Cleaning objects







HAR-208 / 0.704

Semiconductor/electronic industry

半导体电子行业



清洗对象 Cleaning

半导体芯片、晶体、二极管、电阻、PCB 板、线路板、MEMS 器件、电子元器件、计算机主板、零部件壳座等。





合作伙伴 Partner



Single station vacuum hydrocarbon cleaning equipment

单工位真空碳氢清洗设备

举工位真空清洗机主要最为客户产品设计制造的周期能、满桶度清洗设备,主体结构为一个主清洗里和 3 个不同语所 储碱、工作原理具利用电量因用位单个控制真包各件下采用超声度清洗,MUXIC工艺,如用林、干燥来清洗产品上 的预升,现用客户与品的清洁度,满足想用要求。

The single-tation vacuum cleaning-machine is manity a high-intelligence and high-perceision cleaning exaptment designs manufactured for customen' products. The main structure is a main cleaning score and three different lowert broage bank. Ut cleaning is used, supportentiately other processes, such as spraying and ghing to clean the diff on the product, impose the main of the outbroat postack and meet the use aquivament.

设备特点 Features

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全部清洗过程在真空环境下运行,每大观盘得低清洗洗损耗
 ・设备符合人体工程学设计,可操作性好
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 The web costing process rules is a anoune ensomment, which
 The web cost is a cost in the one operation of the gradement is expressed and the gradement is expressed.

・真空超声通洗,対有百孔的工作清洗效果明显
・可透起不同工艺结合,快速清洗工作
Yoouan vibrance deraing which has an obvious clearing when on the well-bed to a
The contendation of diffuent processes can be well-bed to a

采用基础水系穴间接起热力式,无积碳、无种效
 全自动智能运行,实现这程终端监控
 Andy automatic intrigent operation, working sends term income



案例展示 Case presentation

JM-8760AD 八槽式全自动超声波清洗机

清洗污垢:除油污、除胶

设备特点 Features

 .设备安装有高低淡位保护程序,低补高停,自动补液。
 2.设备安装有油水分离装置,可把清洗下来的油污收集处 3.除股槽采用冷凝盘管循环,能有效控制易燃易爆清洗剂 的温度,保障安全操作环境, 4、每套过滤系统后留有取液口。便于人员提取过滤后的液



1. The equipment is equipped with high and bue positions for whydraficion, iow separationent and the 2 The equipment is equipped with an observate separation device, which can color and lead the 3. The glue ensures fash adaption advantage of an adaption, which is an electricity and the set of the 3. The glue ensures fash adaption advantage of a calculation, which is an electricity of the first ensure fash adaption advantage of a calculation, which is an electricity of the first ensure first ensurement. A first ensurement as the second the posterior electricity ensurement and the second the posterior electricity ensurement.

工艺流程 Process flow



案例展示 Case presentation

五槽式全自动超声波清洗机

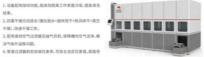


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设备特点 Features

IM-5024AD

清洗污垢:除灰尘 Clean dit semase di



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工艺流程 Process flow

自动接望。



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Multi- station vacuum hydrocarbon cleaning equipment

多工位真空碳氢清洗设备

多工位真空碳氢超声波清洗抗针时以煤氢化合物为清洗介质质稀发设计的一种超声波清洗设备,通过将超声波清洗技 来与真空技术相结合,可以先分发挥被氢添剂的清洗优势,这到更佳济、更高效、更安全的清洗目的。

The multi-lation vacuum hydrocation ultratonic cleaning machine is an ultratonic cleaning equipment developed and designed to hydrocations as the cleaning medium. By combining ultratonic cleaning technology with vacuum technology if con give s lui pipts the the cleaning advectations (here in advectation science) and external cleaning advectation of the cleaning advectation of the cleaning advectation of the cleaning advectation science) and advectation advecta 设备特点 Features

・記者过滤循环系统、可使建築加市与污渍分离。 評保消除
 ・記者立言語語子, 过程定时起来, 技巧无要, 进行于母, 操作方便
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•可記宣各种功能(他认,来说,过道等),加快工件清洗,提
 •纪有蓝简有艺乐经,建生态问题本来这 5%。异名大爱电点本
 直工件表更沾净度
 ·尔马 点的相比的 requestion types and the second set of the

Iff us IT to block (P18. Various functions (ogitation, roling, lifering) can be configured etc.), to speed up the cleaning of the workpiece and improve the cleaniness of the understand the understand

•真空超声清洗,时有盲孔的工作清洗效果明显 Yocum ultratoric cleaning the cleaning effect on works









h is convenient for personnel to extract the filtered liquid for tecting.



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光驰科技(上海)有限公司 0 PTORUN(1 HANONAI)CO.110

MINE - BIER / WITHARDNECC







HIME - HIME / UCTANONIC CLEANER - MIDE BY SOME

· CRRC 中国中车股份有限公司

MRE-200 / UCHNONC CLONER MADE IN SOME

High pressure spray cleaning machine

高压喷淋清洗机

高区等来来其代主要型合电化。高压水泵,体准和磁电、工作需要型品用等电压器在市场并有重要求。 汉礼上的影响。 能外,必须等实施,整个边面在场中上是非常常常的,仍然这份中和常常也非常常。"派为比赛的小,可以不能想出的中心。 适用于不可是发出场种的清洗,根据企业产品的状不识,均为其重身主的分析培养清洗机。就可以完成到,



HML-2008/147

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Hydrogen energy industry

氢能源行业



清洗对象 Ceorie





合作伙伴 Portner



#86-288/102

Tunnel cleaning line and drying line ultrasonic cleaner

通过式超声波清洗机

通过"赵声波走来长程采用特制的接触尽作这些来越这工作。具有多工公、动能业、结构态理、操作力使、清洗效果 时等在点。最大大理主定面工作用类质是及关系。 行力一步运动场域工作完备。通过式用作成力发展工作的包括设有一工作自己通过各有实际进行消息。直觉结束。 清洗接近自动洗品层接接,经过净化处理可留作使用。设备设有胃气防体接张,可以不补接错路。

The through you allocatic dearrag machine uses a special chain and converse tell to transport exclusions. It has the advantages of multi-tablen, bill-technick, essenced is studius, convenient operation, and good clearing effect, which can gendly impose the quarity and efficiency divergence essence.

As a continuous conveying cleaning equipment, the pass through cleaning machine puts the workpieces on the conveyor ally and the workpieces are automatically cleaned through each cleaning soon until the end. The cleaning liquid can automatically cleaned through each cleaning soon until the end. The cleaning liquid can automatically cleaned through each cleaning.

***** . . l. .

工艺流程 Pro

Feeding → ultrasonic cleaning (city water) → ultrasonic rinning (city water) → spray cleaning (city water) → C outling → hot or dwing → output

设备特点 Features

 请洗奶內部塗場根據需求可以上下、左右、供助、定点布置,保证清洗金面无死角。
 配有过该循环系统,做到请洗剂的最大化运用,极大缩减清洗成本。 PLC工业触摸算终端控制系统,仅需一人即可操作清洗,简单方便,
 清洗速度快、清洗效果均匀,可大批量连续作业。

The nozzles inside the cleaning chamber can be arranged up and and fixed point according to the needs, ensuing comprehensive Equipped with a titration circulation system to maximize the use of , ch screen terminal control system only needs one pers ent. wind effect is perfect, and it can be op

清洗对象 Cleaning objects

复杂玉金件、压铸铅件、拉伸件、汽车配件、管件制品、输承等

工艺流程 Process flow

进料→喷淋清洗(市水)→喷淋漂洗(市水)→压缩空气切水→热风描环烘干→出料 ading -- spray cleaning (city water) -hot at citrolation drying -- Unloading



#84-228 / U.S.

1.0.7月 无锡先导智能装备股份有限公司

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案例展示 Case presentation

IM-5156SD 五槽式全自动超声波清洗机

清洗污垢:除灰尘、颗粒及油污 Clean dirt remove dust, particles and all

设备特点 Features



 The liquid storage tank is equipped with a steam heating coil and a 2. Each tank drain is equipped with a detachable anti-blocking net to pre-trained. onic vibration plate adopts the input type vibr

工艺流程 Process flow



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设备特点 Features

·零件直接摆放,前后工序自动连接,件送速度变频可调,自动化程度高。 • 中非國國政、與由上戶目和這個、市場透廣莫所 • 清洗产量大、品种多、设备投入成本低。 · 給外發展、最終時僅全全人工清洗成本。 • 可针好不同除污量求、配置相应工艺进行高效清洁。 • 设备可配置循环过滤系统,大大提高了液体利用效?

The parts are placed directly, the trant and year p trequency convention , and the degree of automati ion is high Large cleaning output,
 Easy to operate, can se
 According to different a
 The equipment can be

清洗对象 Cleaning abj

五金零件,压铸件,液压件,齿轮,轴承,汽车零部件等





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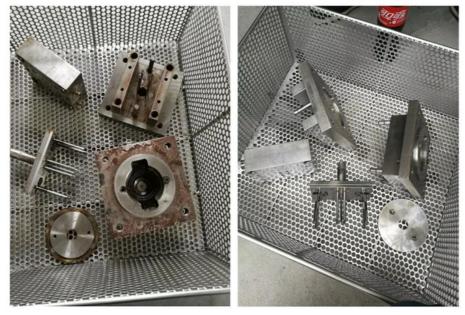








Automatic Ultrasonic Cleaning Line Machine's Clean effect:



Automatic Ultrasonic Cleaning Line Machine's Application In all cleaning methods, fully automatic ultrasonic cleaning is the most efficient and best effect. The reason why ultrasonic cleaning can achieve

this effect is closely related to its unique working principle and cleaning method. We know that in production and life, there are many things that need to be cleaned, and there are many types and links that need to be cleaned. When the requirements are met, even the steam cleaning and high -pressure water shooting can not meet the demand for higher cleanliness. Ultrasonic cleaning can achieve fungal bacteria, dissolved organic pollutants, and prevent over corrosion.

Therefore Widely used in various industries:

(1) The mechanical industry: removal of rust -proof oil; cleaning of quantity; oil and rust removal of mechanical parts; cleaning of engines, carburetor and automotive parts; Cleaning and so on.

(2) Surface treatment industry: oil removal and rust removal before electroplating; cleaning before plating; phosphorus treatment; clearing carbon accumulation; removing oxide skin; removing polishing paste; metal workpiece surface activation treatment, etc.

(3) The instrumental industry: cleaning before the high cleanliness of precision parts, etc.

(4) Electronic industry: printing line boards removing rosin, welded spots; cleaning of mechanical electronic parts such as high -voltage contacts.

- (5) Medical industry: cleaning, disinfection, sterilization, and cleaning of experimental utensils.
- (6) Semiconductor industry: High cleanliness cleaning of semiconductor chips.
- (7) The head of the watch and the decoration industry: remove the mud, dust, oxidation layer, polishing cream, etc.
- (8) Chemistry, biological industry: cleaning and dirt of experimental utensils.

(9) Optical industry: oil removal, sweat removal, and gray of optical devices.

Automatic Ultrasonic Cleaning Line Machine's History:

Skymen was 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 1400 1. 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 applled .The products mainly include industrial equipment, commercial equipment, and household health ultrasonic cleaning machines, which are widely used in factory manufacturing. medical treatment, plastic products, transportation, electronic products, 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 diversied 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"

