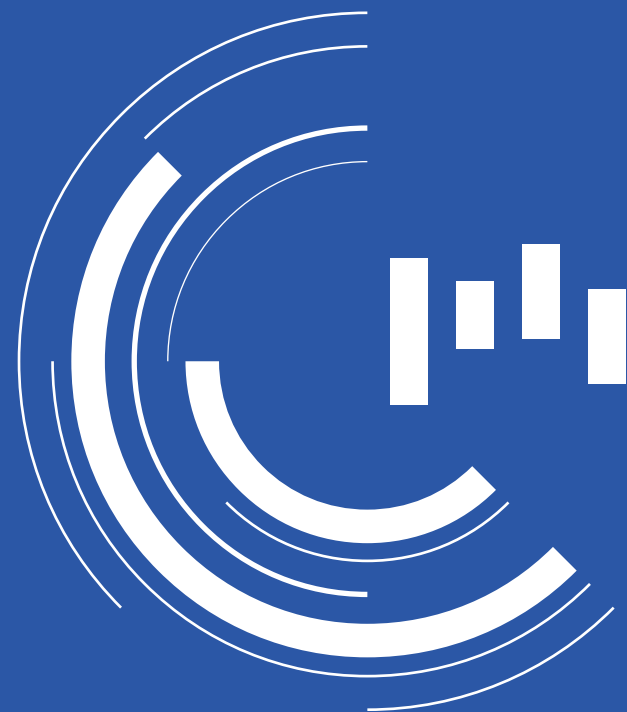




G+RT

无锡杰瑞德自动化科技有限公司

ADD: 江苏省无锡市惠山经济开发区风电园风能路67-2号

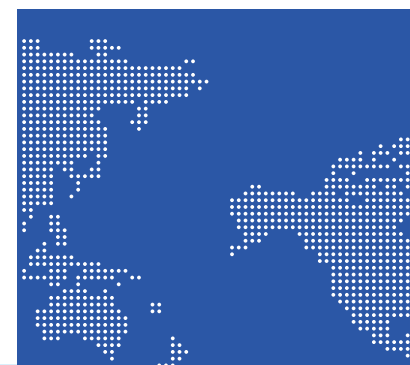
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G+RT



杰瑞德-工业清洗专家

Gerrytech-Industrial Cleaning Solution Expert

We strive
for industry
leader

我们致力于行业
领跑者!



关于我们 /ABOUT US



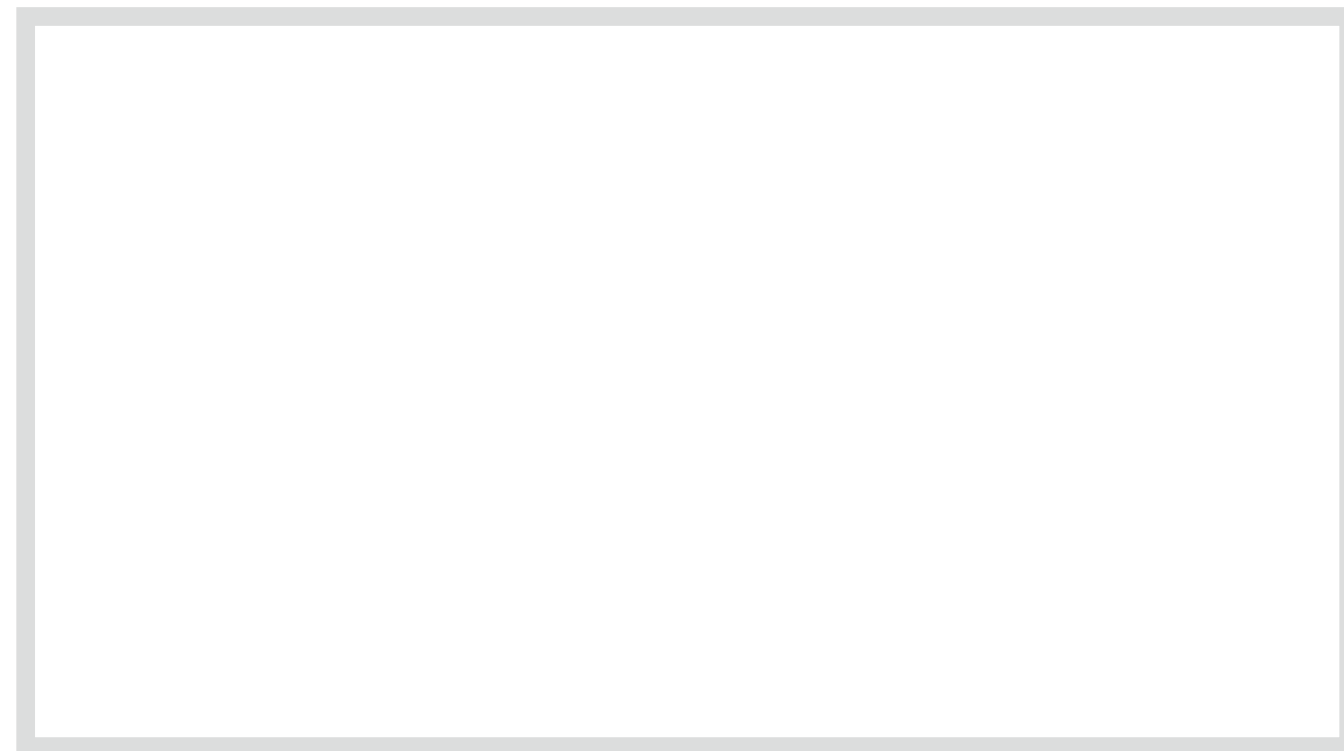
无锡杰瑞德自动化科技有限公司成立于2010年。历经十年技术沉淀已成为完美替代国外品牌的本土企业，成为国内数一数二的金属切削，表面处理，焊接涂层等相关领域的有清洗要求的资深专家。专业提供精密零部件及动力总成清洗系统、自动去毛刺系统、测试系统、上下料等自动化、去离子水/废水废液蒸馏回收系统、集中供液过滤系统等，先后与多家世界五百强企业达成战略合作。设备无论性能，洁净度，可靠性，稳定性，还是环保要求与生产使用成本都超出客户的期待。杰瑞德自动化的产品已陆续出口欧美发达国家。

After ten years of technical precipitation, Gerrytech Automation has become a perfect substitute for foreign brands of local enterprises, become one of the top domestic metal chip, surface treatment, welding coating and other related fields of senior experts with cleaning requirements. It is specialized in providing precision parts and powertrain cleaning system, automatic deburring system, testing system, pure water system, wastewater evaporator treatment system, centralized liquid supply and filtration system, etc. It has reached strategic cooperation with many fortune 500 enterprises successively. Equipment performance, cleanliness, reliability, stability, or environmental requirements and production costs have exceeded customer expectations. Gerrytech Automation's products have been exported to Europe and the United States developed countries.

标准化脉冲式生产车间 Standard Pulse Station Lean Manufacturing

我们采用的是装配制造，使得生产过程标准化、流程化、可视化。通过对现有生产资源的合理规划和整合，有效提高设备总装配效率，改善产品装配质量和现场操作环境，从而保证要交付的设备的高质量、高可靠性，以及快速响应制造、调试，尽早交付客户使用。

Through the pulse work station for assembly processes, we reach the target of standardization, work flow, visualisation, ensure the high quality and reliability of the equipment to be delivered, as well as rapid response to manufacturing, and early delivery to customers for use.



GERRYTECH GERRYTECH

研发的实力

R&D Strength

过滤滤效不稳定,经常出现清洁度超标,明明选择了10μm甚至5μm的滤袋,甚至滤芯,清洁度还是超标!为什么?

Filtration efficiency is instable,and often exceed the cleanliness limit eventhough thosen 10 to 5 μm filter bag or filter!Why?

粒径 Particle size	颗粒截留效率/Particle interception efficiency			
	EATxx熔喷5 μ（新）	NNN公司的Beta-Klean聚酯5 μ（新）	ChixxxCPx聚酯5 μ（新）	未知品牌折叠5 μ（已使用）
≥1.0 μ m	8. 38%	34. 31%	6. 06%	31. 22%
≥2.0 μ m	13. 13%	48. 74%	10. 43%	44. 87%
≥5.0 μ m	34. 16%	84. 79%	25. 97%	72. 99%
≥8.0 μ m	68. 61%	98. 43%	52. 55%	87. 57%
≥10.0 μ m	82. 94%	99. 39%	67. 03%	92. 76%
≥12.0 μ m	93. 17%	99. 60%	83. 40%	96. 86%
≥25.0 μ m	99. 59%	99. 46%	99. 86%	99. 73%
≥35.0 μ m	100. 00%	100. 00%	100. 00%	100. 00%
≥50.0 μ m	100. 00%	100. 00%	100. 00%	100. 00%

粒径 Particle size	颗粒截留效率/Particle interception efficiency						
	Gerrytech APP1.0	Gerrytech CRN1.0	Gerrytech CRN3.0	Gerrytech CRN5.0	Gerrytech EP3.0	Gerrytech EP5.0	Gerrytech APP5.0
≥1.0 μ m	97. 38%	91. 27%	72. 23%	45. 30%	33. 96%	22. 86%	46. 05%
≥2.0 μ m	99. 31%	97. 04%	85. 51%	60. 67%	46. 83%	33. 11%	57. 77%
≥5.0 μ m	99. 95%	99. 86%	99. 29%	90. 91%	78. 06%	63. 08%	84. 20%
≥8.0 μ m	99. 97%	99. 94%	99. 96%	99. 25%	96. 20%	89. 78%	97. 43%
≥10.0 μ m	100. 00%	99. 98%	99. 96%	99. 76%	98. 90%	96. 12%	99. 02%
≥12.0 μ m	100. 00%	100. 00%	99. 97%	99. 84%	99. 71%	99. 07%	99. 62%
≥25.0 μ m	100. 00%	100. 00%	100. 00%	99. 86%	99. 86%	100. 00%	99. 86%
≥35.0 μ m	100. 00%	100. 00%	100. 00%	100. 00%	100. 00%	100. 00%	100. 00%
≥50.0 μ m	100. 00%	100. 00%	100. 00%	100. 00%	100. 00%	100. 00%	100. 00%

清洗技术的四大要素

Key factors of cleaning technology

消除死角死区
Cleaning blocked zone

正确选择清洗的机械力、热力和化学力
Right cleaning mechanical force, heating and chemical

清洗液的过滤
Cleaning medium filtration

吹干防锈高洁净过滤系统、过滤器材质、过滤系统有效率优化
Dry,antirust,high efficiency filtration system,filter material,and filtration system optimization

模块化设计

Modular Design

工业清洗机的模块化设计是一种根据广大用户提出的各种要求,在功能分析的基础上,划分并设计出一系列具有不同用途(或性能)、结构、而功能相同的、可互换的功能模块(包括组件、部件、装置和系统等)和一些专用独立部件,然后通过模块的选择和组合来组装成不同性和规格的普通的或数控的单台机床、专用机床、柔性加工单元(或系统等)以满足市场不同需求的一种设计方法.该法可提高设备设计的柔性和可变性。

The modular design of industrial/ washing machine is a kind of design method that according to the requirements of customers，based on function analysis，division and design a series of different purposes (or performance)，function module，structure and function of the same interchangeable，(including components，devices and systems, etc.) and some special independent component，and then through the selection and combination of modules to be assembled into a single machine, special machine, flexible processing unit with different properties and specifications of the ordinary or NC (or system) to meet the different needs of the market. This method can improve the flexibility and variability of machine design.

低成本
若机床的各部件按模块经组织设计和生产,可提高劳动生产率,也可以降低成本,用户还可以通过更换相应的模块以较低的成本适应转产的需要。

Low Cost
If each part of the machine tool is designed and produced according to the module, it can improve the productivity and reduce the cost. Users can replace the corresponding modules at low cost to adapt to the needs of.

体现用户意愿

依照实际需要和机床长期使用情况,灵活配置机械零部件、数控系统等电气设备的规格、型号、性能等。

Customer Intention

According to the actual needs and long-term use of machine tools, flexible configuration of mechanical parts. CNC systems and other electrical equipment specifications, models, performance, etc.

维修性

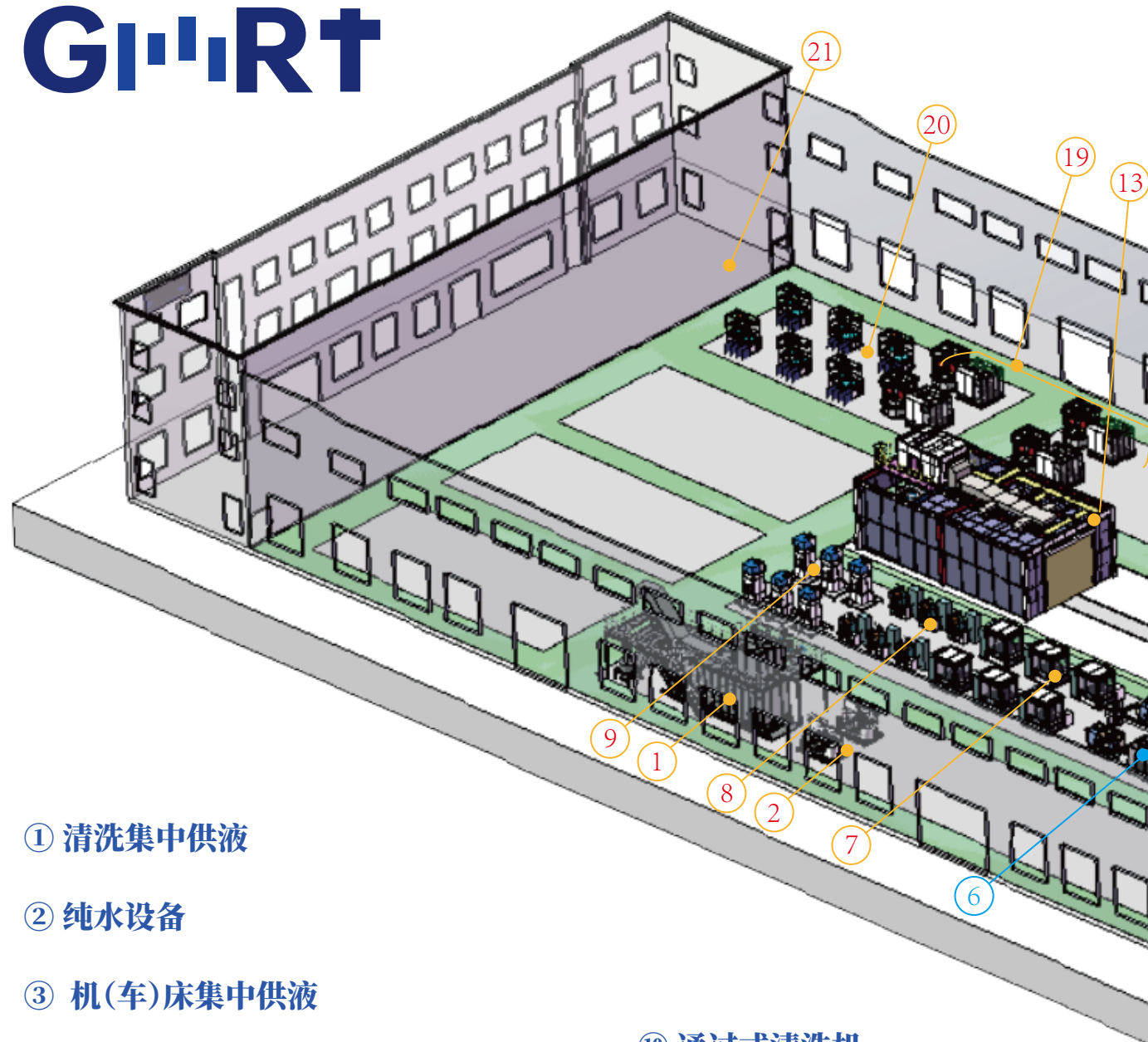
由于机床可由相对独立的模块组成,采用替换法来诊断故障部件,因此通过快速更换模块可以最大限度地缩短机床的停机时间。

Maintainability

Because the machine tool can be composed of relatively independent modules, the replacement method is used to diagnose the fault components.

系统的快速升级
开放式的数控系统就是将构成系统模块化的要素,通过这些要素间标准化接口,能够将由不同买方提供的要素自由地结合起来,从而能方便地构成完整的系统。并使系统具有连续升级的能力,模块化是这一切的基础。可以不断地将最新的技术应用于模块的设计中代替那些结构上或技术上陈旧的模块,在不变更其他模块的基础上开发机床使其不断保持先进性,

System Quickly Update
Open CNC system is the components of the modular system，through these elements of standard interface，can be provided by the buyer of the different elements freely combined, Which can easily form a complete system., And the system has the ability of continuous upgrade. Modularity it the basis of all this. The latest technology can be applied to the design of the module instead of the structure or the technology of the old module, without changing other modules on the basis of me development of machine tools to maintain its advanced nature.



① 清洗集中供液

② 纯水设备

③ 机(车)床集中供液

④ 数控车床(带料仓/自动上下料)

⑤ 过程清洗机

⑥ 加工中心(带料仓/自动上下料)

⑦ 去毛刺机

⑧ 过程冲刷台

⑨ 过程烘干机

⑩ 通过式清洗机

⑪ 通过式超声波清洗机

⑫ 热处理后清洗机

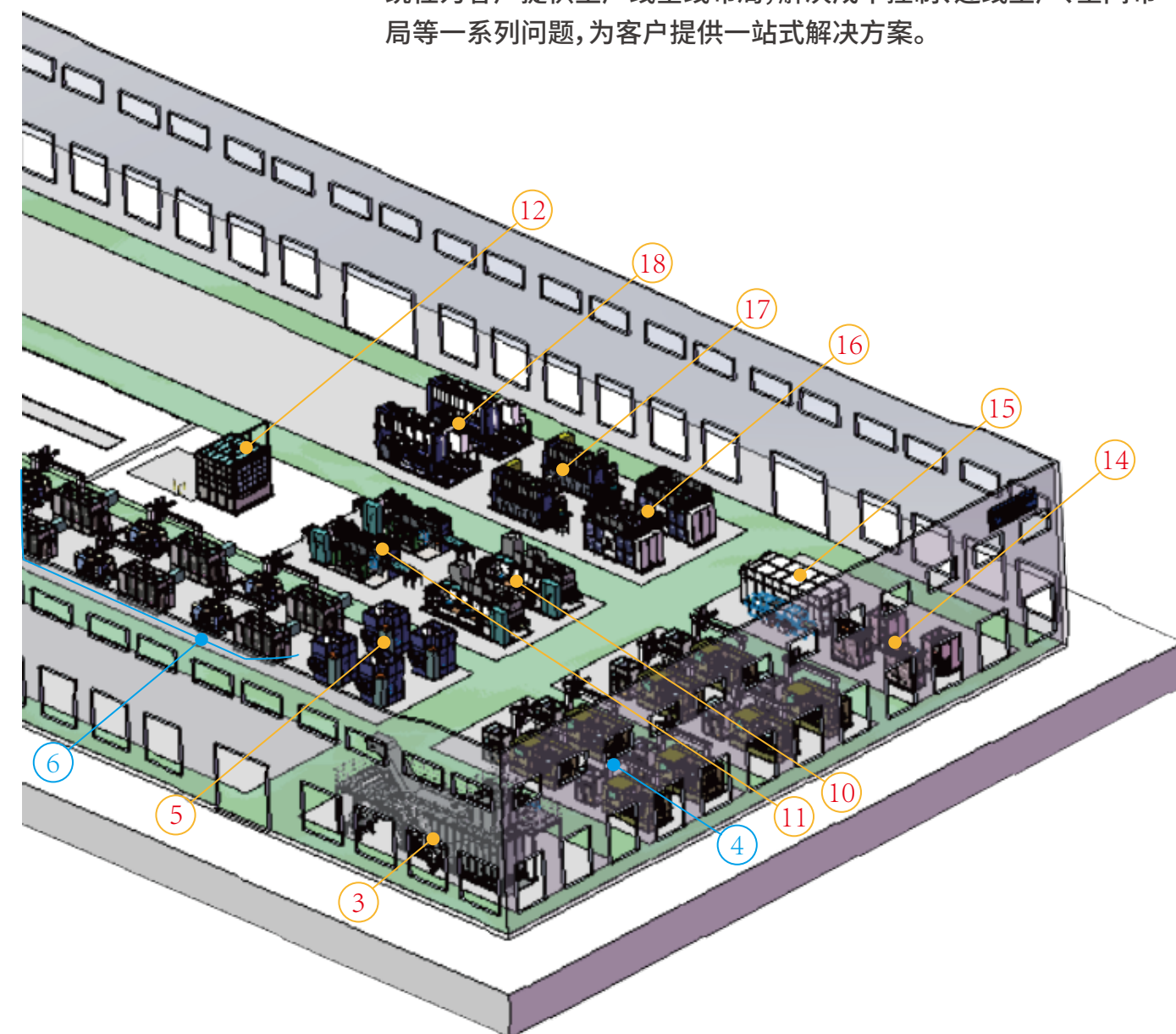
⑬ 清洗房(大工件清洗)

⑭ 高压清洗机

⑮ 旋转紊流超声波清洗机

我们能为您提供什么? What can we offer you?

杰瑞德自动化不仅是设备供应商也是系统供应商,专业为客户打造系统性的自动化车间。从零件的机加工到去毛刺、清洗、烘干、测试检验、装配、打包发货。提供整个系统化、智能化、全局方案。系统性为客户提供生产线全线布局,解决成本控制、连线生产、空间布局等一系列问题,为客户提供一站式解决方案。



⑯ 碳氢清洗机

⑰ 多槽超声波清洗机(带上油)

⑱ 多槽超声波清洗机

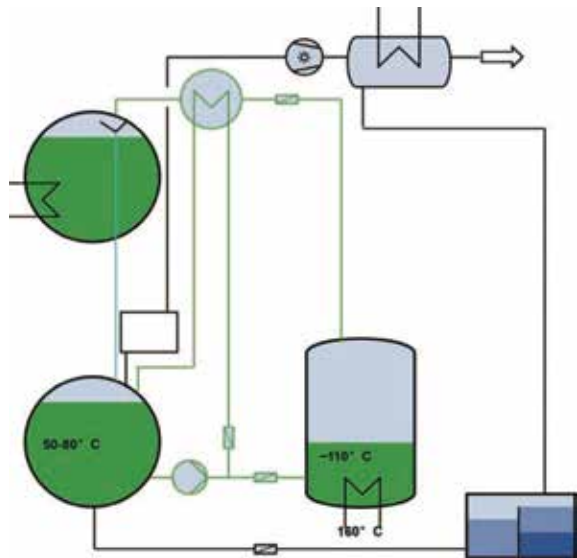
⑲ 总成清洗机(冲刷台)

⑳ 测试台

㉑ 洁净室

清洗节能再生技术，降低排放

Clean Energy-saving Regeneration Technology To Reduce Emissions



- ◆ 清洗过程中挥发出的清洗液经冷凝回流至储液罐重复利用
 - ◆ 被工件污染后的清洗液被泵到蒸馏罐蒸馏
 - ◆ 被蒸馏后的洁净清洗液回流至清洗液槽
- Contaminated solvent from the flood tank (FT1) is pumped to the distillation. The solvent evaporates and condenses. The distillate flows back into FT1.

低温真空干燥

Low Temperature Vacuum Drying



Vacuum:4mbar

- 1.先进的真空技术, 可实现真空度低至4mbar, 从而实现最有效的烘干;
- 2.真空干燥模块组可成线或嵌入于工作腔内;
- 3.真空度实时监控并呈现于HMI中;
- 4.真空干燥后零件需要精密检测要求的可以增加零件冷却系统配置。

清洗剂浓度自动监测系统
Real Time Control Of Cleaning Agent



喷嘴堵塞实时监测功能
Injection Nozzle Block Or Not Real Time Monitoring



专业的托盘载体设计能力
Professional Pallet Design Capabiltiy



专业的自动化连线设计能力
Professional Automation Capability



清洗过滤系统压力实时检测系统
Real Time Cleaning Pressure Mointoring



定点定位高压去毛刺设计
High Pressure Deburring Spot To Spot



多品种适应性夹具设计
Muti-Type Product' s Fixture Design



专业的装夹方式 Professional Loading



以最低的成本为客户量身定制最优的装夹方式，以确保可靠的清洁质量
To optimize the clamping method for customers at the lowest cost in order to ensure a reliable cleaning quality



项目流程 Project Flow

清晰的流程-》体现客户至上的理念-》客户需求--PDCA项目实现流程

Simplified Flow>>Customer Orientation>>Customer Requirements>>PDCA Project Realization Flow



根据零特性制定专有清洗参数

Develop Specific Cleaning Parameters Based On Zero Characteristics

上下料方式 Load/Unload Method	清洗方式 Washing Method	干燥原理 Drying System
零件初始状态 PartsInitial Status	能源回收 Power Recycling	逻辑控制 Logic Control
报警功能 Warning Function	可追溯性 Transibility	过滤层次 Filtering Class
生产运营成本 OperationCost	漂洗原理 Rinising Mehod	防错措施 POKA-YOKA
定位方式 Positioning Way	设备可靠性 Reliabiity	油水分离 Oiland Water Separator
过滤精度 Filtering Accuracy	行业标准 Industrial Standard	设备维修便利性 Maintenance Easily
人机工程学 Ergonomic	国家规范 State Specification	水雾处理 Condenser
洁净度要求 Cleanness And Weight Requirement Class	自动化程度/劳动强度 Automation/WorkLoad	
清洗原理/压力及流量等 WashingMethod/PressureandFlow	清洗剂特性 Cleaning Agent Character	

先进试验车间

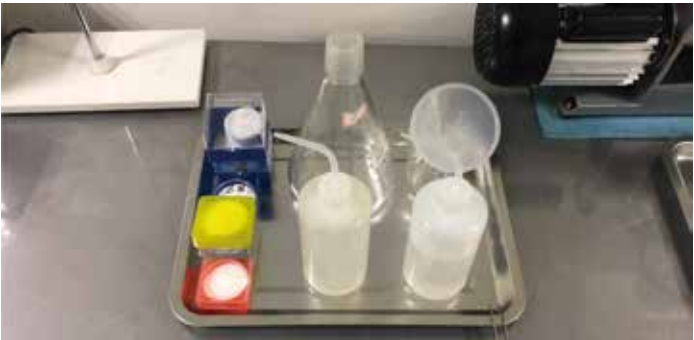
Advanced Experimental Workshop



洁净度要求标准
Cleannessand Weight Requirement Class:
FORDESBC3P7W092
GMN16037
ISO16232.2
BOSCHF019D04
DELPHIEPS-41300052
VDA19

检测能力——实验室

Testing Capability



先进的管理理念

Advanced Management Concept



企业价值观
Enterprise value

质量控制
Quality control

专业化调试
Specialized debugging

流程化装配
Process assembly

先进的制造理念/管理
模块工序化生产
实现快速交付

Advanced manufacturing concepts/management
Modular process production
Rapid delivery

员工能力认证/培训
Employee competency certification/training

部件模块化生产
Component modular production

客户满意度
Customer satisfaction

技术交流

Technical Exchange



先进清洗技术研讨会 Advanced cleaning technology seminar



分享先进清洗技术给客户 Share advanced cleaning technology to customers



先进的清洗技术 Advanced cleaning technology



客户需求 Customer demand

集中供液系统

Central Supplying System



设备和工艺：
适用于多设备共同集中供液
· 集中过滤系统
· 集中温度控制系统
· 清洗液浓度集中控制
· 压力实时监测

设备优点：
· 维护方便
· 液体循环使用，无异味
· 人工成本，使用成本低

设备特点：
· 全自动完成工艺流程
· 整齐的管道布置

设备其它功能：
· 自动加水
· 浓度监控
· 自动添加清洗剂
· 自动防锈

Machine&Process :
Suitable for several machines central supplying
· Central control filtration system
· Central temperature controlling system
· Central concentration controlling
· Online pressure monitoring

Machine advantages :
· Convenient maintenance
· Recycle usage of liquid , no smell
· Low cost of HC , consumption

Machine characteristic :
· Complete automation of process
· Well organized piping

Machine other function :
· Automatic filling water
· Concentration monitoring
· Automatic filling chemical
· Automatic rust protection

去离子水设备 GRT-DI Water 3T型

Deionized water equipment GRT-DI Water 3T



设备和工艺:

- 一级RO反渗透系统, 产出纯水电导率小于10μs/cm
- 二级RO反渗透系统, 产出纯水电导率小于5μs/cm
- 配置石英砂过滤器、活性炭过滤器
- 产纯水量0.5吨/小时~3吨/小时
- 纯水泵变频控制

设备优点:

- 采用西门子控制系统
- 自动添加阻垢剂、絮凝剂
- 噪音低于75dB

Machine & Process:

- Primary RO reverse osmosis system, pure water conductivity less than 10 μs/cm
- Secondary RO reverse osmosis system, pure water conductivity less than 10 μs/cm
- Equipped with quartz sand filter, activated carbon filter
- The pure water capacity is from 0.5m³/h~3m³/h
- Pure water pump frequency conversion control

Machine advantages:

- Adopt Siemens control system
- Automatically add scale inhibitor and flocculants
- Noise lower than 75dB

设备特点:

- 压力监控
- 流量监控
- 电导率监控

设备其它功能:

- 可选纯水预加热功能

Machine characteristic:

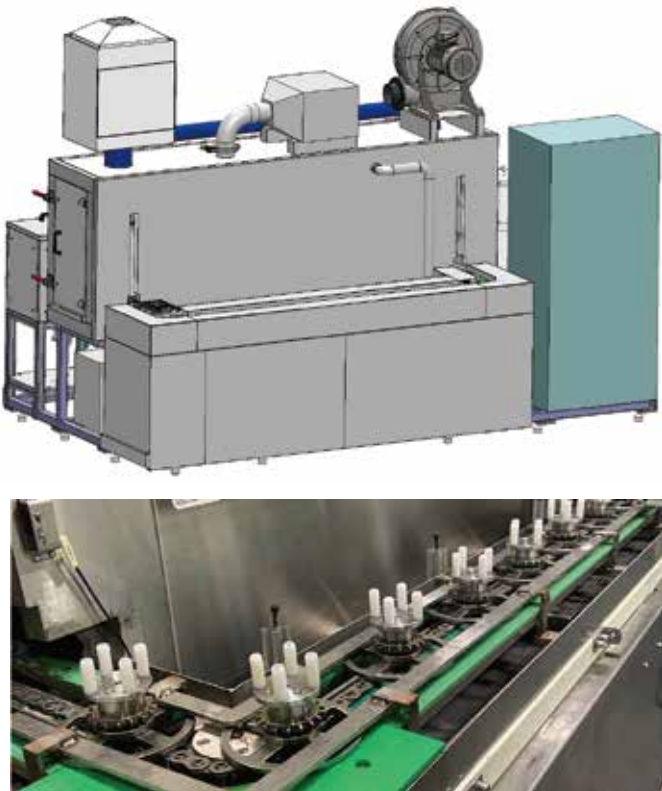
- Pressure monitoring
- Flow monitoring
- Conductivity monitoring

Machine other function:

- Optional pure water preheating function

过程清洗机 GRT-TC2000-R型

Process washing machine GRT-TC2000-R



设备和工艺:

- 适用于高清洁度要求的产品
- 适合轴、GDI泵体类零件清洗
- 采用西门子控制系统
- 高品质不锈钢制造
- 清洗、漂洗、精漂洗、热风干燥在各自区间内完成

设备优点:

- 有效的过滤系统设计
- 高效的油水分离系统
- 零件在输送过程中旋转, 有效提高产品洁净度

Machine & Process :

- Suitable for high cleanliness requirement product
- Suitable for shaft, GDI pump body parts
- SIEMENS control system
- High quality stainless steel manufacturing
- Cleaning, rinsing, fine rinsing, drying in individual interval

Machine advantages :

- Effective filtering system design
- Efficient oil skimmer system
- The parts rotate during conveyor running

设备特点:

- 环形输送设计
- 输送带速度可调
- 滤袋堵塞监测功能
- 喷嘴堵塞监测功能

设备其它功能:

- 自动加水
- 浓度监控
- 自动添加清洗剂

Machine characteristic :

- Ring conveyor design
- Conveyor speed can be adjusted
- Filter bag jam monitoring
- Nozzle jam monitoring

Machine other function :

- Automatic filling water
- Concentration monitoring
- Automatic filling chemical

毛刷去毛刺设备 GRT-1800型
Brushing deburring machine GRT-1800



- 设备和工艺：**
- 气动马达带动毛刷高速旋转，对工件去毛刺
 - 机械手自动上下料
 - 全自动输送机构
- 设备优点：**
- 西门子控制系统
 - 毛刷寿命监控
 - 机械夹爪带工件正反防错功能
 - 油品供液及回液全过滤

- Machine&Process：**
- The pneumatic motor drives the brush to rotate at high speed, deburring the parts
 - Automatically load/unload by mechanical hand
 - Automatic transmission mechanism
- Machine advantages:**
- SIEMENS control system
 - Brush life monitoring
 - The mechanical gripper has mistake proofing function for the parts position
 - Full filtration on oil supply and return

- 设备特点：**
- 全自动完成工艺流程
 - 整齐的管道布置
 - 去毛刺前对工件退磁
 - 油雾收集处理装置
 - 输送带上方全封闭护罩
 - 输送带选用耐油材质

- Machine characteristic：**
- Complete automation of process
 - Well organized piping
 - Demagnetizing before deburring
 - Oil mist collection and treatment device
 - Fully enclosed cover over conveyor belt
 - The conveyor belt is made of oil-resistant material

机器人自动去毛刺设备 GRT-2000型
Automatic deburring machine GRT-2000



- 设备和工艺：**
- 气动马达带动毛刷高速旋转，对工件去毛刺
 - 机械人自动上下料
 - 多工位设计，提高设备产能
 - 碎屑自动收集
- 设备优点：**
- 西门子控制系统
 - 毛刷寿命监控
 - 毛刷自动补偿，自动修剪

- Machine&Process：**
- The pneumatic motor drives the brush to rotate at high speed, deburring the part
 - Automatically load/unload by robot
 - Multi station design for improving machine capacity
 - Automatic collecting chips
- Machine advantages:**
- SIEMENS control system
 - Brush life monitoring
 - Brush automatic compensates, automatic trim

- 设备特点：**
- 全自动完成工艺流程
 - 兼容多型号零件去毛刺
 - 配置六轴机器人
 - 抽屉式上下料盘

- Machine characteristic:**
- Complete automation of process
 - Compatibility multi types parts deburring
 - Equip 6 axis robot
 - Drawer type load/unload tray

手动高压清洗机 GRT-HP1200型

Manual HP Washing Machine GRT-HP1200



- 设备和工艺：**
适用于多种零件清洗
·全不锈钢制造(洗涤槽、底盘、洗涤腔、工作台、回流过滤器)
·柱塞高压泵
·手动喷枪式压缩空气干燥
- 设备优点：**
·设备灵巧紧凑
·移位方便
·全方位无死角清洗
·清洗位置及全过程可见

- Machine&Process:**
Suitable for a wide range of parts cleaning
· Full stainless steel manufacturing (tank, chassis, wash chamber, table, return filter)
· Plunger high pressure pump
· Manual gun-type compressed air drying

- Machine advantages:**
· Machine is nimble and compact
· Shift convenient
· Well cleaning without dead angle
· The cleaning position and the whole process are visible

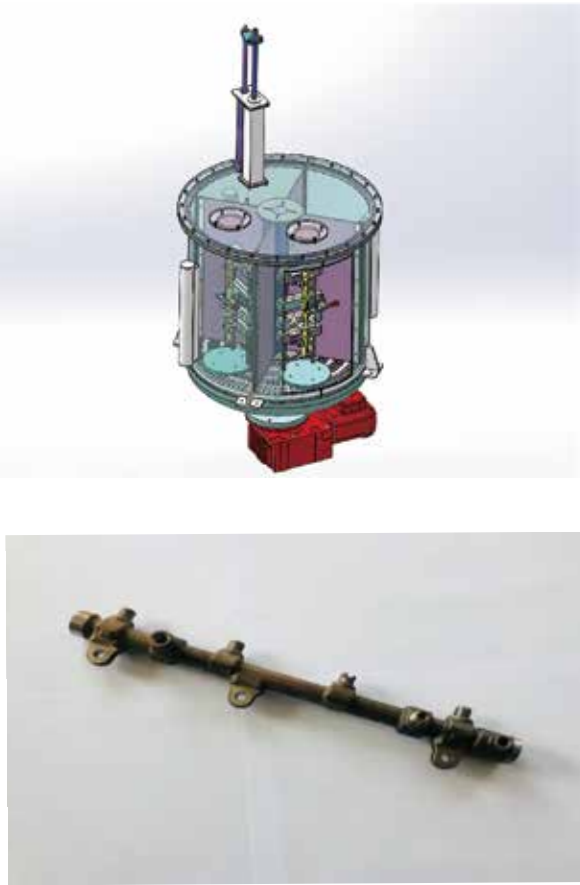
- 设备特点：**
·高压泵最大压力150bar
·可做预清洗及可实现与其他自动化设备连线
·标准配置手动转盘式工作台, 适用于多种零件全方位清洗
- 选配项：**
·定点定位清洗
·撇油器
·吸雾风机

- Machine characteristic:**
· Highest pressure is 150bar
· It can be used for pre-cleaning and can be connected with other automation equipment
· Standard configuration manual rotary table , suitable for a wide range of parts cleaning

- Option:**
· Spot to spot cleaning
· Oil skimmer system
· Fog suction fan

过程烘干机 GRT-DM1000H型

Process drying machine GRT-DM1000H



- 设备和工艺：**
·实现对零件的彻底干燥
·多工位设计, 提高产能
·零件自动夹紧工装
·高品质不锈钢制造
- 设备优点：**
·兼容多型号零件
·设备底部安装脚轮, 便于移动

- Machine & Process:**
· Completely dry the parts
· Multi-stations design for improving the capacity
· Automatic clamp part on fixture
· High quality stainless steel manufacturing

- Machine advantages:**
· Compatible with many types of parts
· Casters are installed at the bottom of the equipment for easy movement

- 设备特点：**
·升降门两侧布置安全光栅
·凸轮分割器旋转机构设计
- Machine characteristic:**
· The light curtain is arranged on both sides of the lifting door
· Rotation mechanism of CAM divider design

通过式喷淋清洗机 GRT-TC8090型
Tunnel spray washing machine GRT-TC8090



- 设备和工艺：**
适用于高清洁度要求的产品
- 精致、简约外观
 - 西门子控制系统
 - 清洗、漂洗、精漂洗、热风干燥在各自区间内完成
- 设备优点：**
- 适合翅片、周转箱等工件
 - 有效的过滤系统设计
 - 高效的油水分离系统
 - 高效的油雾分离系统
 - 输送带可与前后设备对接，实现连线生产

- Machine&Process：**
Suitable for high cleanliness requirement product
- Tidy, simple appearance
 - SIEMENS control system
 - High quality stainless steel manufacturing
 - Cleaning, rinsing, fine rinsing, drying in each area

- Machine advantages：**
- Suitable for fins, KLT
 - Effective filtering system design
 - Efficient oil skimmer system
 - Efficient oil mist separation system
 - Conveyor can connect with the front and rear equipment to realize the connection production



- 设备特点：**
- 全自动完成工艺流程
 - 高清洁、低能耗
 - 整齐的管道布置
 - 滤袋堵塞监测
 - 喷嘴堵塞监测
 - 自动加水
 - 自动排污
 - 浓度监控
 - 自动添加清洗剂

- Machine characteristic:**
- Complete automation of process
 - High efficient, low consumption
 - Well organized piping
 - Filter bag jam monitoring
 - Nozzle jam monitoring
 - Automatic filling water
 - Automatic drain
 - Concentration monitoring
 - Automatic filling chemical

通过式清洗机 GRT-TC2200系列
Tunnel Washing Machine GRT-TC2200



- 设备和工艺：**
适用于高清洁度要求的产品
- 适合轴、齿类零件清洗
 - 采用西门子控制系统
 - 高品质不锈钢制造
 - 清洗、漂洗、精漂洗、热风干燥在各自区间内完成
- 设备优点：**
- 有效的过滤系统设计
 - 高效的油水分离系统
 - 输送带可与前后设备对接，实现连线生产
 - 超声波清洗和喷淋清洗工艺设计，有效提高产品洁净度

- 设备特点：**
- 输送带速度可调
 - 滤袋堵塞监测功能
 - 喷嘴堵塞监测功能
- 设备其它功能：**
- 自动加水
 - 浓度监控
 - 自动添加清洗剂
 - 机器人自动上下料

- Machine other function：**
Automatic filling water
- Concentration monitoring
 - Automatic filling chemical
 - Automatic loading/unloading by robot

通过式清洗机 GRT-TC2000系列

Tunnel Washing Machine GRT-TC2000



- 设备和工艺：**
- 适用于高清洁度要求的产品
 - 适合齿轮、轴类等工件
 - 采用西门子控制系统
 - 高品质不锈钢制造
 - 清洗、漂洗、热风干燥在各自区间内完成

- 设备优点：**
- 有效的过滤系统设计
 - 高效的油水分离系统
 - 噪音小于75dB
 - 输送带可与前后设备对接，实现连线生产

- 设备特点：**
- 模块化结构设计，具有多种扩展可能性
 - 输送带速度可调
 - 可选用带式或链式输送机构连续或循环输送零部件
 - 滤袋堵塞监测功能
 - 喷嘴堵塞监测功能

- 设备其它功能：**
- 自动加水
 - 浓度监控
 - 自动添加清洗剂
 - 自动防锈

- Machine&Process：**
- Suitable for high cleanliness requirement product
 - Suitable for gear, shaft parts
 - SIEMENS control system
 - High quality stainless steel manufacturing
 - Cleaning , rinsing, drying in individual interval

- Machine advantages：**
- Effective filtering system design
 - Efficient oil skimmer system
 - Noise lower than 75dB
 - Conveyor can connect with the front and rear equipment to realize the connection production

- Machine characteristic：**
- Modular structure with multiple extension possibilities
 - Conveyor speed can be adjusted
 - It can be used for continuous or circular transmission of components by belt or chain transmission
 - Filter bag jam monitoring
 - Nozzle jam monitoring

- Machine other function：**
- Automatic filling water
 - Concentration monitoring
 - Automatic filling chemical
 - Automatic rust protection

双通道通过式清洗机 GRT-DTC2000系列

Double Tunnel Washing Machine GRT-DTC2000



- 设备和工艺：**
- 适用于高清洁度要求的产品
 - 适合齿轮、轴类等工件
 - 采用西门子控制系统
 - 高品质不锈钢制造
 - 清洗、漂洗、热风干燥在各自区间内完成

- 设备优点：**
- 有效的过滤系统设计
 - 高效的油水分离系统
 - 噪音小于75dB
 - 输送带可与前后设备对接，实现连线生产
 - 双通道设计，有效提高设备产能

- 设备特点：**
- 模块化结构设计，具有多种扩展可能性
 - 输送带速度可调
 - 可选用带式或链式输送机构连续或循环输送零部件
 - 滤袋堵塞监测功能
 - 喷嘴堵塞监测功能

- 设备其它功能：**
- 自动加水
 - 自动添加清洗剂

- Machine&Process：**
- Suitable for high cleanliness requirement product
 - Suitable for gear, shaft parts
 - SIEMENS control system
 - High quality stainless steel manufacturing
 - Cleaning , rinsing, drying in individual interval

- Machine advantages：**
- Effective filtering system design
 - Efficient oil skimmer system
 - Noise lower than 75dB
 - Conveyor can connect with the front and rear equipment to realize the connection production
 - Double tunnel design, effectively improve capacity

- Machine characteristic：**
- Modular structure with multiple extension possibilities
 - Conveyor speed can be adjusted
 - It can be used for continuous or circular transmission of components by belt or chain transmission
 - Filter bag jam monitoring
 - Nozzle jam monitoring

- Machine other function：**
- Automatic filling water
 - Concentration monitoring
 - Automatic filling chemical
 - Automatic rust protection

通过式超声波清洗机 GRT-TC2100系列
Tunnel Ultrasonic Washing Machine GRT-TC2100



- 设备和工艺：**
- 适用于高清洁度要求的GDI-body、油阀、阀芯等汽车零部件
 - 采用西门子控制系统
 - 高品质不锈钢制造
 - 超声波清洗、喷淋清洗(备选)、喷淋漂洗、干燥及冷却在各区间内完成
 - 配置特制油水分离系统, 提高清洗液更换周期
- 设备优点：**
- 有效的过滤系统设计
 - 通过机械臂自动完成超声波清洗工位上下料
 - 高效的油水分离系统
 - 噪音小于75dB
 - 输送带可与前后设备对接, 实现连线生产

- Machine&Process:**
- Suitable for high cleanliness requirement GDI body, oil valves, valve cores and other automotive parts
 - SIEMENS control system
 - High quality stainless steel manufacturing
 - Ultrasonic cleaning, spray cleaning (optional), sprayrinsing, dryingand cooling complete in individual interval
 - Configure a special oil-water separation system to improve the replacement cycle of cleaning fluid
- Machineadvantages:**
- Effective filtering system design
 - Automatically complete load/unload by mechanical arm on ultrasonic cleaning station
 - Efficient oil skimmer system
 - Noise lower than 75dB
 - Conveyor can connect with the front and rear equipment to realize the line production

旋转紊流腔体式清洗机 GRT-DR1000W
Rotating Turbulent Washing Machine GRT-DR1000W



- 设备和工艺：**
- 适用于高清洁度要求的产品
 - 适合热处理后的零件清洗
 - 腔体大, 适用于大工件清洗
 - 西门子控制系统
 - 清洗、漂洗、精漂、热风烘干、真空干燥于一个腔体内完成
- 设备优点：**
- 噪音小于75dB
 - 集浸泡、喷淋、清洗、漂洗、紊流、超声波清洗、大流量排液等功能
 - 工件可以根据需要做静止、360度旋转、定角度摆动或定角度静止等功能

- Machine&Process:**
- Suitable for high cleanliness requirement product
 - suitable for parts cleaning after heat treatment
 - Large chamber, suitable for large parts cleaning
 - SIEMENS control system
 - Cleaning, rinsing, fine rinsing, hot air drying and vacuum drying in single chamber
- Machine advantages:**
- Noise lower than 75dB
 - Integrated emersion, spraying, cleaning, rinsing, turbo flow, ultrasonic, mass drain
 - Parts can be stay, 360degree rotation, certain angle swaying or stay etc.

- 设备特点：**
- 高清洁、低能耗
 - 整齐的管道布置
 - 可备选自动压盖功能
 - 可备选全自动上下料
 - 可存储20种清洗工艺程序(可选扫码枪自动识别)
- 设备其它功能：**
- 自动加水
 - 自动添加清洗剂
 - 升级双腔
 - 浓度监控
 - 自动防锈

- Machine characteristic:**
- High efficient, low consumption
 - Well organized piping
 - Optional automatic covering function
 - Optional automatic loading/unloading
 - 20kinds of cleaning process can be stored (optional barcode scanner automatic identification)
- Machine other function:**
- Automatic filling water
 - Concentration monitoring
 - Automatic filing chemical
 - Automatic rust protection
 - Upgrade double chamber

清洗房 GRT-CR251
Cleaning Room GRT-CR251



设备和工艺：
适用于超大尺寸、结构复杂的产品
· 高品质不锈钢制造
· 布局合理、外形美观
· 配有排气风机，保证清洗室内无水雾
· 清洗系统1用1备

设备特点：
· 高清洁、低能耗
· 自动排污
· 自动浓度监测
· 漏液自动报警

设备优点：
· 定点定位高压清洗
· 集高压清洗、高压漂洗、低压漂洗、热风吹干等功能
· 可根据不同零件，灵活更换喷嘴
· 手持喷枪，精准定位清洗
· 配备吸水枪，便于工件深孔及盲孔干燥
· 压力30~160bar，变频可调

Machine&Process：
Suitable for super size and complex structure products
· High quality stainless steel manufacturing
· Reasonable layout and beautiful appearance
· Equipped with an exhaust fan to ensure no water mist in the cleaning room

Machine characteristic：
· High efficient, low consumption
· Automatic drain
· Automatic Concentration monitoring
· Leakage alarm

Machine advantages：
· Set high pressure cleaning
· Include high pressure cleaning, low pressure rinsing, hot air drying and other functions
· The nozzle can be changed flexibly according to different parts
· Hand - held spraying gun for precise positioning cleaning
· Equipped with suction gun, easy to dry deep hole and blind hole
· Pressure range is 30~160bar, variable frequency adjustable

定点定位高压清洗机 GRT-HP1200
Spot To Spot High Pressure Washing Machine GRT-HP1200



设备和工艺：
适用于多种零件内孔高压去毛刺及清洗
· 采用西门子控制系统
· 高品质不锈钢制造
· 高压清洗、低压清洗、吹风干燥都在一个工作腔内自动完成

设备优点：
· 定点定位高压清洗
· 双工作腔设计，生产效率高
· 低排放，低能耗

设备特点：
· 高压泵压力范围：60~350bar
· 可做预清洗及与其它自动化设备连线
· 自动加水
· 浓度监控
· 自动添加清洗剂

Machine&Process：
Suitable for high pressure deburring and flushing of wide range parts' inner holes
· SIEMENS control system
· High quality stainless steel manufacturing
· High pressure flushing, low pressure flushing and blow drying automatically completed in a single chamber

Machine advantages：
· Spot to spot high pressure flushing
· Double chamber design with high production efficiency
· Low emission, low energy

Machine characteristic：
· The pressure range of high pressure pump is 60~350bar
· It can be used for pre-cleaning and can be connected with other automation equipment
· Automatic filling water
· Concentration monitoring
· Automatic filling chemical

旋转紊流超声波清洗机GRT-SC800W

Rotating Turbulent Itrasonic Washing Machine GRT-SC800W



设备和工艺：
适用于高清洁度要求的产品
· 适合精密、外形结构复杂的工件(阀体、泵体、壳体等)
· 西门子控制系统
· 清洗、漂洗、精漂、热风烘干、真空干燥于一个腔体内完成

设备优点：
· 噪音小于75dB
· 集浸泡、喷淋、清洗、漂洗、紊流、超声波清洗、大流量排液等功能
· 工件可以根据需要做静止、360度旋转、定角度摆动或定角度静止等功能

设备特点：
高清洁、低能耗
· 整齐的管道布置
· 可备选自动压盖功能
· 可备选全自动上下料
· 可存储20种清洗工艺程序(可选扫码枪自动识别)

设备其它功能：
· 自动加水
· 自动添加清洗剂
· 升级双腔
· 浓度监控
· 自动防锈

Machine&Process：
Suitable for high cleanliness requirement product
· Suitable for precision, complex geometry parts(e.g.valvebody, pump, body, shell)
· SIEMENS control system
· Cleaning, rinsing, finerinsing, hot air drying and vacuum drying in single chamber

Machine advantages：
· Noise lower than 75dB
· Integrated emersion, spraying, cleaning, rinsing, turbo flow, ultrasonic, mass drain
· Parts can be stay, 360degree rotation, certain angle swaying or stay etc.

Machine characteristic：
· High efficient, low consumption
· Well organized piping
· Optional automatic covering function
· Optional automatic loading/unloading
· 20kinds of cleaning process can be stored(optional barcode scanner automatic identification)

Machine other function:
· Automatic filing water
· Concentration monitoring
· Automatic filing chemical
· Automatic rust protection
· Upgrade double chamberer

旋转紊流超声波清洗机GRT-DC880W

Rotating Turbulent Itrasonic Washing Machine GRT-DC880W



设备和工艺：
适用于高清洁度要求的产品
· 精致、简约外观
· 西门子控制系统
· 高品质不锈钢制造
· 清洗、漂洗、精漂、热风烘干、真空干燥于一个腔体内完成

设备优点：
· 噪音小于75dB
· 适合精密、外形结构复杂的工件(阀体、泵体、壳体等)
· 集浸泡、喷淋、紊流、超声波、大流量排液等功能
· 工件可以根据需要做静止、360度旋转、定角度摆动或定角度静止等功能

设备特点：
· 一键完成全部工艺
· 高清洁、低能耗
· 整齐的管道布置
· 可备选自动压盖功能
· 可备选全自动上下料
· 可存储多种清洗工艺程序(可选扫码枪自动识别)

设备其它功能：
· 自动加水
· 自动排污
· 浓度监控
· 自动添加清洗剂
· 自动防锈
· 升级双腔、多腔
· 漏液自动报警

Machine&Process：
Suitable for high cleanliness requirement product
· Tidy, simple appearance
· SIEMENS control system
· High quality stainless steel manufacturing
· Cleaning, rinsing, fine rinsing, hot air drying and vacuum drying are completed in single chamber

Machine advantages：
· Noise lower than 75dB
· Suitable for precision, complex geometry parts (e.g. valve body, pump body, shell)
· Integrated emersion, spraying, turbo flow, ultrasonic, mass drain cleaning method
· Parts can be stay, 360 degree rotation, certain angle swaying or stay etc.

Machine characteristic：
· One key complete entire process
· High efficient, low consumption
· Well organized piping
· Optional automatic covering function
· Optional automatic loading/unloading
· Multiple cleaning process can be stored (optional barcode scanner automatic identification)

Machine other function:
· Automatic filling water
· Automatic draining
· Concentration monitoring
· Automatic filling chemical
· Automatic rust protection
· Upgrade double chamber, multi chamber
· Automatic leak alarm

单工位碳氢溶剂真空清洗机GRT-SC800C

Single Chamber Hydrocarbon Solvent Vacuum Washing Machine GRT-SC800C



设备和工艺：
适用于含油量多的产品
·适合精密、外形结构复杂的工件(阀体、泵体、壳体等)
·西门子控制系统
·清洗、漂洗、精漂、真空干燥于一个腔体内完成

设备优点：
·噪音小于75dB
·集浸泡、喷淋、清洗、漂洗、紊流、超声波清洗、大流量排液等功能
·工件可以根据需要做静止、360度旋转、定角度摆动或定角度静止等功能

设备特点：
·一键完成工艺
·高清洁、低能耗
·可备选自动压盖功能
·可备选全自动上下料
·可存储20种清洗工艺程序(可选扫码枪自动识别)

设备其它功能：
·蒸馏回收
·升级双腔

Machine&Process：
Suitable for products with high oil content
·Suitable for precision , complex geometry parts (e.g. valvebody, pump body, shell)
·SIEMENS control system
·cleaning, rinsing, fine rinsing and vacuum drying in single chamber

Machine advantages：
·Noise lower than 75dB
·Integrated emersion , spraying, cleaning , rinsing, turboflow, ultrasonic , massdrain
·Parts can best ay, 360degreerotatation, certain angle swaying or stay etc.

Machine characteristic：
·One key complete entire process
·High efficient , low consumption
·Optional automatic covering function
·Op tonal automatic loading/unloading
·20 kinds of cleaning process can be stored (optional barcode scanner automatic identification)

Machine other function：
·Distillation recovery
·Upgrade double chamber

多槽碳氢溶剂真空超声波清洗机 GRT-TU5200HC

Multi-tanks Hydrocarbon Solvent Vacuum Ultrasonic Washing Machine GRT-TU5200HC



设备用途：
·适用于铸铁、粉末冶金、铸铝、铜、不锈钢等多材质的混流清洗
·可以在真空状态下采用超声波清洗、碳氢蒸汽浴洗、蒸汽突沸干燥等模式
·零排放, 适用于高排放标准的用户

设备特点：
·零排放、无污染
·高清洁、低能耗、可反复蒸馏再生使用
·气体浓度监测、火焰检测, 自动灭火功能

MAE application：
·Suitable for mixing cleaning of cast iron, powder metallurgy, cast aumium, copper, stainless steel and so on.
·Consisit of utrasonic cleanig, hydrocarbon steam bath and steam heating dring can be adopted in vacuum state.
·Zero emissions , applicable to users with high emission standards .

MAE characteristic：
·Zero emissions , no pollution
·High cleaning , low energy consumption, and can be recycled by repeated distillation
·Gas concentration monitoring , flame detection, automatic fire extinguishing function .

多槽机械臂超声波清洗机GRT-TG5200-Y型
Multi-tanks Robotic Arm Ultrasonic Washing Machine GRT-TG5200-Y



- 设备和工艺：**

 - 超声波清洗、漂洗(高密度)
 - 浸没涂油，油品全时循环过滤
 - 可选真空干燥
 - 机械臂自动移位

设备优点：

 - 全时过滤系统
 - 透明观察窗
 - 噪音低于75dB
- 设备特点：**

 - 上下料具有缓存区
 - 维修方便
 - 可选轻型或重型机械臂
 - 清洗槽数可增加或减少

设备其它功能：

 - 自动加水
 - 自动添加清洗剂
 - 浓度监控
 - 自动防锈

- Machine & Process：**

 - Ultrasonic cleaning , rinsing(high density)
 - Immersion oiling, oil is circulating filtration full time
 - Optional vacuum drying
 - The robotic arm is automatically shifted

Machine advantages：

 - Full time filtering system
 - Transparent viewing window
 - Noise lower than 75dB
- Machine characteristic：**

 - Loading and unloading area have cache region
 - Convenient maintenance
 - Optional light or heavy mechanical arm
 - The cleaning tanks can be increased or decreased

Machine other function：

 - Automatic filling water
 - Concentration monitoring
 - Automatic filling chemical
 - Automatic rust protection

多槽机械臂超声波清洗机GRT-TG5200型
Multi-tanks Robotic Arm Ultrasonic Washing Machine GRT-TG5200



- 设备和工艺：**

 - 超声波清洗、漂洗(高密度)
 - 可选真空干燥
 - 机械臂自动移位
 - 高品质不锈钢制造

设备优点：

 - 全时过滤系统
 - 透明观察窗
 - 噪音低于75dB
- 设备特点：**

 - 上下料具有缓存区
 - 维修方便
 - 可选轻型或重型机械臂
 - 清洗槽数可增加或减少

设备其它功能：

 - 自动加水
 - 自动添加清洗剂

- Machine&Process：**

 - Ultrasonic cleaning , rinsing(high density)
 - Optional vacuum drying
 - The robotic arm is automatically shifted
 - High qulaty stainless steel manufacturing

Machine advantages：

 - Full time filtering system
 - Transparent viewing window
 - Noise lower than 75dB
- Machine characteristic：**

 - Loading and unloading area have cache region
 - Convenient maintenance
 - Optional light or heavy mechanical arm
 - The cleaning tanks can be increased or decreased

Machine other function：

 - Automatic fi lng water
 - Concentration monitoring
 - Automatic filling chemical
 - Automatic rust protection

多槽通过式超声波清洗机 GRT-TG5200-B型

Multi-Tanks Tunnel Ultrasonic Washing Machine GRT-TG5200-B



设备和工艺

- 超声波清洗、漂洗
- 可选真空干燥
- 拨杆式移动篮筐

设备优点:

- 全时过滤系统
- 透明观察窗
- 噪音低于75dB

设备特点:

- 上下料具有缓存区
- 维修方便
- 清洗槽数可增加或减少

设备其它功能:

- 自动加水
- 自动添加清洗剂
- 浓度监控
- 自动防锈

Machine&Process:

- Ultrasonic cleaning , rinsing
- Optional vacuum drying
- Deflector rod move basket
- High quality stainless steel manufacturing

Machine advantages:

- Full time filtering system
- Transparent viewing window
- Noise lower than 75dB

Machine characteristic:

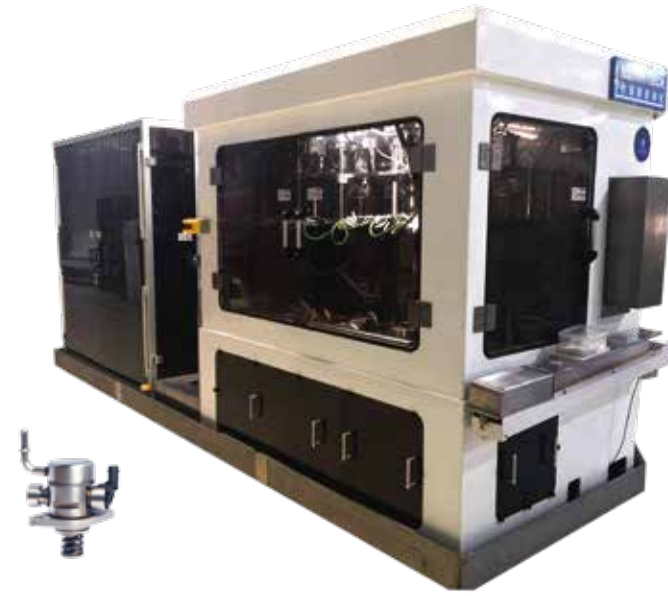
- Loading and unloading area have cache region
- Convenient maintenance
- The cleaning tanks can be increased or decreased

Machine other function:

- Automatic filling water
- Concentration monitoring
- Automatic filling chemical
- Automatic rust protection

多工位转台清洗机 GRT-RF1600型

Multi-stations Rotary Table Washing Machine GRT-RF1600



设备和工艺:

- 适用于高清洁度要求的产品
- 精致、简约外观
- 西门子控制系统
- 高品质不锈钢制造
- 设备同一侧上下料

设备优点:

- 适合结构复杂的工件 (阀体、泵体等) 内部回路清洗
- 多工位设计, 节拍短, 产能高
- 通过快速换型设计, 实现多型号零件清洗
- 噪音小于75dB

Machine&Process :

- Suitable for high cleanliness requirement product
- Tidy, simple appearance
- SIEMENS control system
- High quality stainless steel manufacturing
- Loading and unloading in one side

Machine advantages:

- Suitable for the complex structure of parts (valve body,pump body, etc.) internal circuit cleaning
- Multi-stations design, short cycle time, high productivity
- Multi-types parts are realized cleaning by fast changeover design
- Noise lower than 75dB

设备特点:

- 高清洁、低能耗
- 通过读码器实现追溯功能, 并接入现场MES系统

设备其它功能:

- 可备选机器人自动上下料功能
- 针对特殊零件(如GDI泵), 可升级动态测试功能

Machine characteristic :

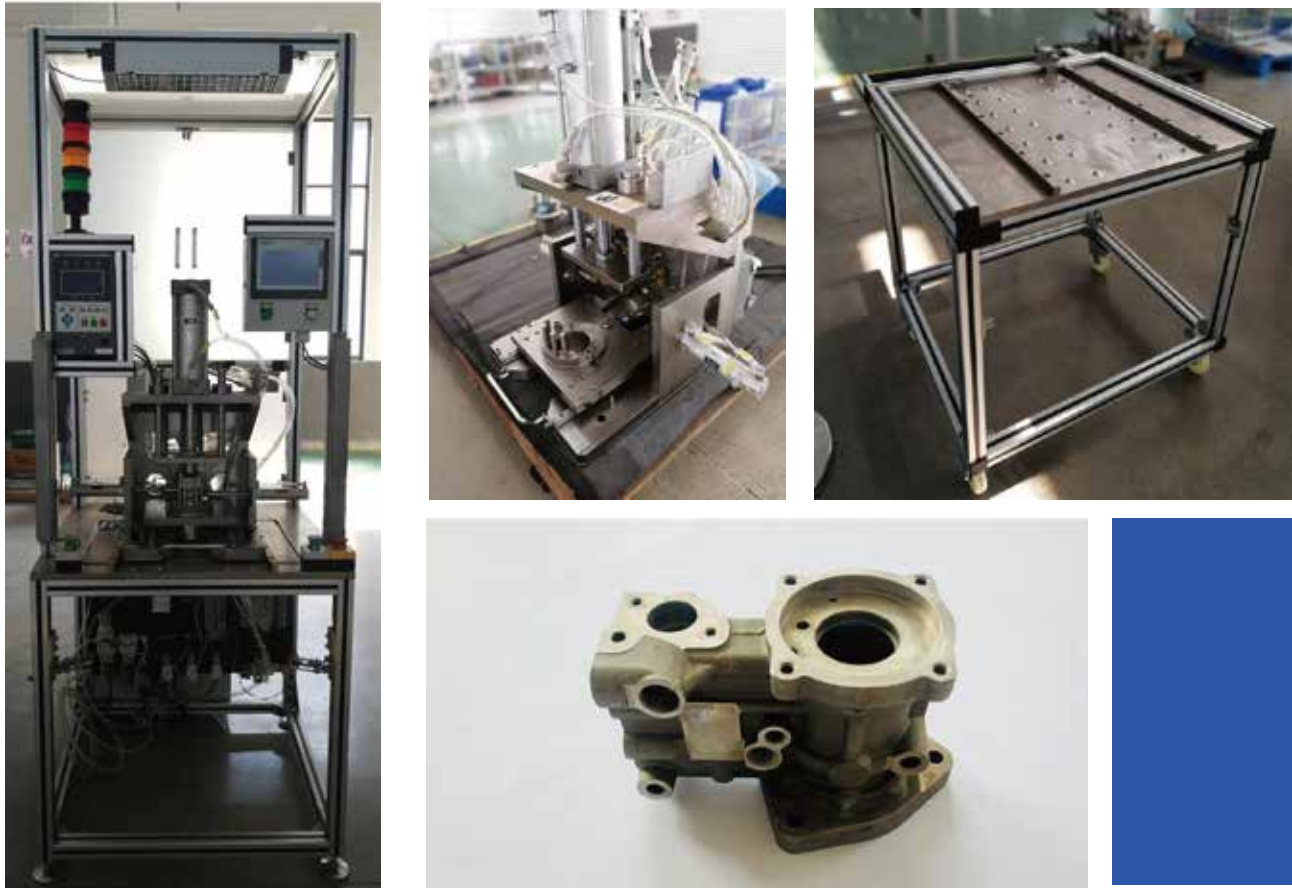
- High efficient, low consumption
- The traceability function is realized by code reader and connected into MES system on site

Machine other function :

- Optional robot automatic loading/unloading function
- The dynamic testing can be upgraded against special parts such as GDI pump

气密检测设备 GRT-AD850

Air tight detection system GRT-AD850



- 设备优点:**
- 噪音小于70dB
 - 可检测多型号, 仅需更换工装
 - 采用换型小车、航空插头、气路集成阀板, 实现快速换型
 - 自动/手动干测检验
 - 安全光幕防护
 - 精致、简约外观

- 设备特点:**
- 适用于壳体、总成气密性检测
 - 一键完成检测工艺
 - 高精度、低能耗

- MAE advantages:**
- Noise lower than 70dB
 - Multiple models can be tested and only tooling need to be replaced
 - Adopt the trolley, aviation plug, gas path integrated valve board, realize quick change model
 - Automatic/manual dry test
 - Safety screen protection
 - Tidy, simple appearance

- MAE characteristic:**
- Suitable for air tightness detection of shell and assembly
 - One key complete detection process
 - High accuracy, low consumption

机器人清洗机 GRT-RW2000型

Robot washing machine GRT-RW2000



- 设备用途:**
- 适用于变速器齿轮组件加工过程中、电子束焊前、装配前的清洗和干燥
 - 适用于变速器壳体、阀体的过程清洗和最终清洗
 - 适用于发动机缸体、缸盖的过程清洗和最终清洗。也适用于多品种曲轴的去毛刺及清洗干燥
 - 采用机器人抓零件或机器人抓喷枪两种工作模式

- 设备特点:**
- 高压去毛刺、大流量清洗、定点定位清洗。
 - 上料自动检测, 机器人上下料, 机器人夹持零件完成整个清洗工艺。
 - 清洗液温度、浓度/PH监控。
 - 全智能工作模式
 - 全视觉识别系统
 - 柔性、自动更换夹爪
 - 更安全可靠的运行
 - 滤袋堵塞监测
 - 喷嘴堵塞监测
 - 自动加水
 - 自动加液
 - 自动排污

- MAE application :**
- Suitable for cleaning and drying of transmission gear assembly before electron beam welding and assembly.
 - Suitable for process cleaning and final cleaning of transmission housing and valve body .
 - Suitable for the process cleaning and final cleaning of engine block and head . Also suitable for deburring and cleaning and drying of multi-variety crankshaft .
 - Adopt two working modes of robot grasping parts or robot grasping spray gun.

- MAE characteristic :**
- High pressure deburring , high flow cleaning, fixed point and fixed postion cleaning .
 - Automatic inspection of loading , loadig and unloading by robot. Robot clamp the part and compete the whole ceasing process.
 - Concentration /PH monitoring
 - Fully intelligent working mode
 - Full visual recognition system
 - Flexible , automatic changing of gripper
 - More safety and reliable running
 - Nozzle jam monitoring
 - Automatically fi lng chemical
 - Filter bag jam monitoring
 - Automatically filling water
 - Automatically draining

回转喷淋清洗机 GRT-SR8010型

Rotary Spray Washing Machine GRT-SR8010



- 设备和工艺：**
- 适用于多种零件清洗
 - 西门子控制系统
 - 全不锈钢制造(洗涤槽、底盘、洗涤腔、工作台、回流过滤器)
 - 清洗、干燥于一个腔体内完成

- 设备优点：**
- 设备灵巧紧凑
 - 移位方便
 - 全方位无死角清洗
 - 清洗位置及全过程可见

- Machine&Process：**
- Suitable for a wide range of parts cleaning
 - SIEMENS control system
 - Full stainless steel manufacturing (tank, chassis, wash chamber, table, return filter)
 - Cleaning and drying in single chamber

- Machine advantages：**
- Machine is nimble and compact
 - Shift convenient
 - Well cleaning without dead angle
 - The cleaning position and the whole process are visible

- 设备特点：**
- 清洗及干燥过程中，旋转筐带工件自动旋转
 - 可做预清洗及维护清洗
 - 标准配置自动转盘式篮筐，适用于多种零件全方位清洗

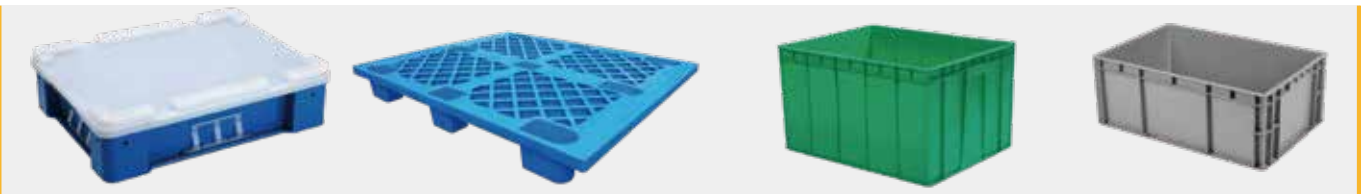
- 选配项：**
- 撇油器
 - 吸雾风机
 - 热风干燥

- Machine characteristic：**
- In the process of cleaning and drying, the rotary basket is rotating automatically
 - It can be used for pre-cleaning and maintenance clean
 - Standard configuration automatic rotary basket, suitable for a wide range of parts cleaning

- Option：**
- Oil skimmer system
 - Fog suction fan
 - Hot air drying

托盘、料架、周转箱清洗机 GRT-MC300W型

Pallet Washing Machine GRT-MC300W



- 设备和工艺：**
- 可清洗多品种，多型号
 - 单工作腔，集成清洗、漂洗、干燥功能
 - 高品质不锈钢制造
 - 篮筐式或托盘式生产

- 设备优点：**
- 大流量清洗，产品更干净
 - 大流量排液，效率高
 - 极佳的除油效率
 - 有效的油雾处理系统

- Machine&Process：**
- Able to cleaning multiple types
 - Single working chamber which is integrated cleaning, rinsing, drying
 - High quality stainless steel manufacturing
 - Washing frame or fixture production

- Machine advantages：**
- Mass flow ensure cleaning
 - High flow drain, high efficient
 - Best oil removal efficiency
 - Effective oil mist treatment system

- 设备特点：**
- 一键完成全部清洗工艺过程
 - 备选喷嘴堵塞报警功能
 - 备选旋转篮定点喷淋功能
 - 备选自动上下料功能
 - 滤芯堵塞自动报警功能

- 设备其它功能：**
- 自动加水
 - 浓度监控
 - 自动添加清洗剂

- Machine characteristic：**
- One key complete entire washing process
 - Optional nozzles jam alarm function
 - Optional rotary basket fixed point spray function
 - Optional automatic loading / unloading function
 - Filter core block automatic alarm function

- Machine other function：**
- Automatic filling water
 - Concentration monitoring
 - Automatic filling chemical

CNC高压清洗机 GRT-HP2200型
CNC high pressure washing machine GRT-HP2200



设备和工艺：
适用于多种零件内孔高压去毛刺及清洗
·采用西门子控制系统
·CNC五轴控制，实现零件六面清洗
·高压清洗、低压清洗、吹风干燥都在一个工作腔内自动完成

设备优点：
·采用加工中心数控系统，操作简单
·采用多种喷嘴进行清洗，适合复杂形状工件

设备特点：
·高压泵压力范围：100~500bar
·智能调压系统
·可选自动换刀系统
·可选双喷嘴，两轴同时清洗，提高效率

Machine & Process :
Suitable for high pressure deburring and flushing of wide range parts' inner holes
·SIEMENS control system
·CNC five - axis control, realize six - sides cleaning of parts
·High pressure flushing, low pressure flushing and blow drying automatically completed in a single chamber

Machine advantages :
·Adopt machining center numerical control system, easy to operate
·Adopt multiple nozzles using for cleaning, suitable for the parts with complex shape

Machine characteristic :
·The pressure range of high pressure pump is 100~500bar
·Intelligent pressure regulating system
·Option automatic changing nozzles system
·Option double nozzles, two axis for cleaning simultaneously

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运用ERP、MES等系统
实现工序化、可视化、标准化、
流程化.....
With ERP system, MES system, etc.
to realise the target of work station sequence arrangement,
visualization system, standard flow system...