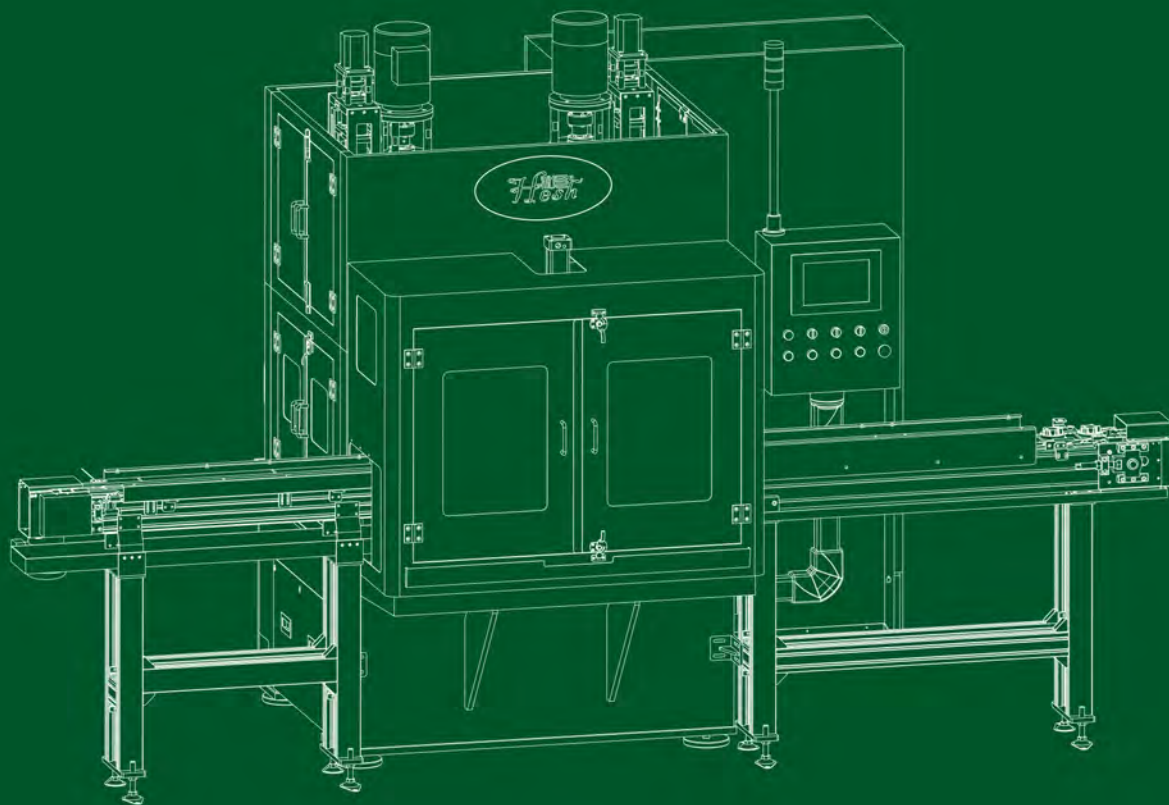


Hesh®

和氏工业技术集团
HESH Industry Technology Group



去毛刺技术领航者 Deburring Navigator



集团简介

Group Introduction

股票简称：和氏技术

股票代码：832281



和氏工业技术集团始创于2004年，总部位于珠海（股票简称：和氏技术，股票代码：832281），形成涵盖汽车、家电、电子、军工、新能源等领域的高端智能装备、工业标准件、投资管理三大产业的集团公司。和氏大力推动资源优化整合，在十多个地区建立了研发机构及控股、参股公司，其中多家为国家高新技术企业。和氏坚持以“改善客户的效率、安全和环境”为使命，专注于高端装备智能制造，特以智能工厂集成为主要产品，着力打造自主品牌核心竞争力，立足中国，服务世界。

HESH Industry Technology Group (Stock Code: HESH Technology, Stock Code:832281.), established in 2004, headquartered in Zhuhai, is a multinational enterprises group, specializing in high-tech intelligent equipments, industrial standard parts, financial investment covered automotive, house appliance, electronic, aviation, new energy industries etc. HESH Group has been persisting on resources integration and established tens of research institutions and joint-venture companies, some of them are National High-tech companies. With the mission of “improving customer efficiency, safety and environment”, HESH Industry Technology Group focuses on high-end equipment intelligent manufacturing, specially on smart factory integration , and strives to build the core competitiveness of its own brand with innovative technology, based on China and serving the world.



专业为您“量身定制” 合适您使用的去毛刺抛光机

Professionally provide the “Customized” deburring polishing machine which meet your requirement

在机械加工中，工件的边、角、棱等部位经过切削后不可避免会产生大小不一的毛刺。毛刺的存在对工件的加工精度、装配精度、再加工定位和外观质量等许多方面都会造成不良影响。

In mechanical processing, the edges, corners, edges and other parts of the workpiece will inevitably produce burrs of different sizes after cutting. The existence of burrs will have a negative impact on the processing accuracy, assembly accuracy, reprocessing positioning and appearance quality of the workpiece.



毛刷式去毛刺抛光机
Brush deburring polishing machine

高精度
High-precision

机器人去毛刺抛光机
Robot deburring polishing machine

高效率
High-efficiency



高压水去毛刺清洗机
High pressure water deburring cleaning machine

高品质
High-quality

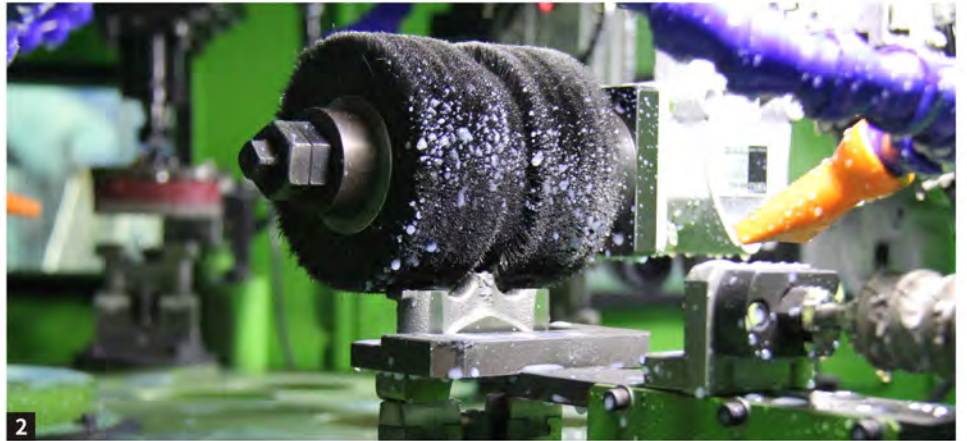


产品应用案例

Product application case



1



2

1 凸轮轴去毛刺抛光
Remove the burr of camshaft

2 凹凸面去毛刺抛光
Remove the burr of rough plane

3 涡旋面去毛刺抛光
Remove the burr of vortex surface

4 内孔去毛刺抛光
Remove the burr of hole

5 平面去毛刺抛光
Remove the burr of plane

6 棱边倒角去毛刺
Remove the burr of edge

7 外圆去毛刺抛光
Remove the burr of excircle

8 侧面去毛刺抛光
Remove the burr of side face

9 焊道去毛刺抛光
Remove the burr of weld bead

10 齿环去毛刺抛光
Remove the burr of gear ring

11 机器人去毛刺抛光
Robot deburring polishing



3



4



6



7



8



9



10



5



11

去毛刺抛光工件

Deburring polishing parts



涡轮增压器涡壳
Turbocharger volute

涡轮增压器中间壳
Middle shell of turbocharger

轴承座
Bearing block

凸轮轴
Camshaft

转子
Rotor

定子
Stator

气门
Engine valve

喷油嘴
Engine injector

活塞
Piston

连杆
Connecting rod



发动机
Engine



蜗杆
Worm

蜗轮
Steering gear worm

转向器
Steering gear

管柱
Steering column

节叉
Steering fork

壳体
Shell

齿条
Steering gear bar



阀板
Valve plate

外转子
External rotor

内转子
Inner rotor

齿圈
Gear ring

齿环
Gear ring

变速器
Transmission



棘轮
Ratchet

棘爪
Claw

毛刷式去毛刺抛光机

Brush deburring polishing machine



▶ 自动上下料
Automatic loading

▶ 柔性寻位
Flexible location

▶ 智能补偿
Intelligent compensation

▶ 在线检测
Online detection

外圆倒棱 Chamfer	R0.05~0.13
粗糙度 Roughness	较前道工序提高15% Raise 15%
外观 Appearance	无毛刺、无夹伤 Without burrs and no scratch

设备介绍

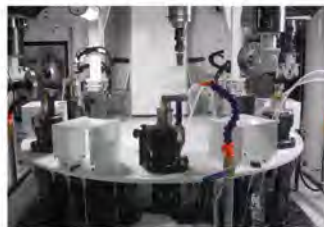
Introduction

毛刷式去毛刺抛光机用于金属零件的平面、内孔及特定槽孔位的精密加工去毛刺抛光，解决零件制造过程中微细毛刺带来的装配质量、成品率问题。具备自动上下料、智能补偿、柔性寻位及在线检测等功能。

Brush deburring polishing machine is used to precisely process and deburr and polish the plane, inner hole and specific groove hole position of metal parts. It solves the assembly quality and yield problems caused by micro-burrs in the manufacturing process of parts. It has the functions of automatic feeding and unloading, intelligent compensation, flexible positioning and on-line detection.



轴承座去毛刺抛光(转盘式)
Bearing block deburring machine



棘轮棘爪去毛刺抛光(转盘式)
Ratchet pawl deburring machine



定子去毛刺抛光(转盘式)
Stator deburring machine

结构特点

Structural characteristics

- 采用多工位同时加工方式；
- 可对工件加工数量进行统计；
- 自动精准快速定位去毛刺部位；
- 根据工件加工工艺选用干式或湿式去毛刺抛光；
- 毛刷磨损后可自动补偿，根据工件设定补偿值；
- 毛刷可选用尼龙刷或钢丝刷，也可按要求定做；
- 具有故障报警提醒功能，帮助操作者排除故障。
- Multi-station simultaneous processing mode is adopted.
- The number of workpieces processed can be counted.
- Automatically located the deburring position accurately and quickly.
- Dry or wet deburring polishing is selected according to workpiece processing technology.
- The brush can be compensated automatically after wear, and the compensation value is set according to the workpiece.
- Nylon brush or steel wire brush can be used as brush, or customized as required.
- It has the function of fault alarm and reminder to help operators troubleshoot.



气缸去毛刺抛光机 (直线式)
Cylinder deburring machine



凸轮轴去毛刺抛光机 (直线式)
Camshaft deburring machine



齿环去毛刺抛光机 (直线式)
Gear deburring machine



刷内齿棱角2
Remove the burr of inner teeth



刷外齿棱角2
Remove the burr of outer teeth



翻转
Flipping



刷外齿面
Remove the burr of outer tooth surface



刷内齿棱角1
Remove the burr of inner teeth



刷外齿棱角1
Remove the burr of outer teeth



端面刷
Face brush



轮刷
Wheel brush



碗型刷
Bowl brush



内孔刷
Inner brush



笔刷
Pen brush



球头刷
Ball head brush

机器人去毛刺抛光机

Robot deburring polishing machine



设备介绍

Introduction

机器人去毛刺抛光机采用工业机器人夹持电动、气动动力主轴或工件进行自动化去毛刺、去披锋、修边、打磨及抛光。适用于镁铝、锌合金压铸件，钢材冲压件，复合材料，注塑件等金属。

Robot deburring polishing machine uses industrial robots to grip electric and pneumatic spindles or parts for automatic deburring, trimming, grinding and polishing. It is suitable for magnesium-aluminium and zinc alloy die castings, steel stamping parts, composite materials, injection moulding parts and other metals.

去毛刺前
Before deburring



去毛刺后
After deburring

浮动主轴
Floating spindle



旋转锉
Rotary file

结构特点

Structural characteristics

- 根据工件去毛刺要求确定机器人夹持主轴或工件；
- 采用浮动机构，刀具可根据工件的形状自动仿形；
- 加工刀具可选择铣刀、旋转锉、磨头、砂带、毛刷等；
- 采用气动或电动主轴，自适应产品披锋大小；
- 加工不同材料可以预设浮动压力；
- 可连接工业机器人标准法兰。

- According to the deburring requirement of workpiece, the robot clamps the spindle or workpiece;
- With floating system, the tool can be automatically shaped according to the shape of the workpiece;
- Milling cutter, rotary file, grinding head, abrasive belt, brush and so on can be selected as processing tool;
- Pneumatic or electric spindle is used to adjust the size of the product's cape;
- Floating pressure can be preset for processing different materials;
- Standard flanges for industrial robots can be connected.



优势

Advantage

- ◎ 替代人工，保证工件去毛刺质量一致性；
 - ◎ 针对异形件的复杂毛刺更有效便捷去除；
 - ◎ 更换新工件只需重新编程及更换工装治具；
 - ◎ 浮动技术让去毛刺抛光更加柔性化；
 - ◎ 可根据工件毛刺位置大小定制专机。
- Replacing manual work to ensure the consistency of deburring quality;
 - It is more effective and convenient to remove complex burrs for special-shaped parts;
 - The replacement of new workpiece only requires reprogramming and replacement of tooling and fixtures;
 - Floating technology makes deburring polishing more flexible;
 - The special machine can be customized according to the position and size of workpiece burr.



异形件去毛刺抛光
Remove the burr of special-shaped



磨头
Grinding wheel head

毛刷
Deburring brush

铣刀
Hobbing

砂带
Sand machine



高压水去毛刺清洗机

High pressure water deburring cleaning machine

设备介绍

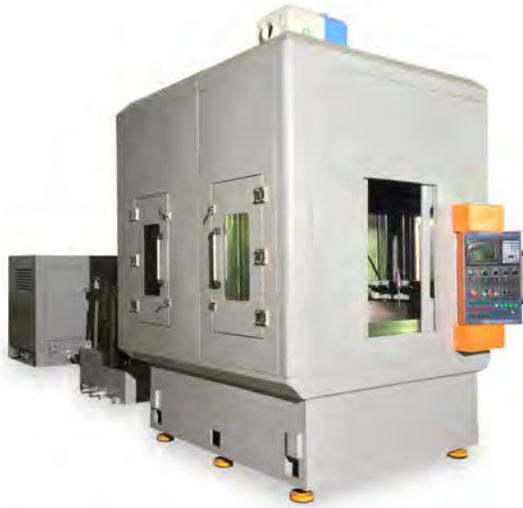
Introduction

高压水去毛刺清洗机利用高压水射流原理对金属零件产品进行去毛刺、清洗和除砂。

适用于汽车发动机、变速箱、制冷压缩机、船舶、飞机发动机、军工产品、模具等各种球墨铸铁、灰口铸铁、粉末冶金、铸造铝合金、不锈钢零件、铜制品的去毛刺清洗。

High pressure water deburring cleaning machine, Metal parts products to make use of principle of high pressure water jet deburring, cleaning and sand removal.

It's suitable for automobile engine, gearbox, refrigeration compressor, ships and aircraft engines, military products, mold and other nodular cast iron, grey cast iron, powder metallurgy, deburring cleaning of casting aluminum alloy, stainless steel parts, copperware.



▶ 去毛刺
Deburring

▶ 清洗
Cleaning

▶ 除砂
Sand removal



去毛刺
Deburring



除砂
Sand removal



刀具架
Tool rack

结构特点

Structural characteristics

- ◎ 高效对阀体壳体的交叉孔、斜孔、螺纹孔以及盲孔的去毛刺清洗；
- ◎ 通过CNC的控制，精确定位去毛刺清洗；
- ◎ 具有自动更换高压喷枪功能；
- ◎ 柔性水加工，对工件的损伤少，不存在工具磨损问题；
- ◎ 模块化设计，灵活性强，适合多品种；
- ◎ 环保节能，切屑过滤，油雾收集，无环境污染。

- High efficiency of the valve body shell cross hole, hole, screw thread hole and blind hole deburring cleaning;
- Through the CNC control, precise positioning, deburring cleaning;
- With functions of automatic replacement of high pressure spray gun;
- Flexible water processing, less damage in workpiece, without tool wear and tear problems;
- Modular design, strong flexibility, suitable for varieties ports;
- Environmental protection and energy saving, scrap filtering, oil mist collection, no environmental pollution.



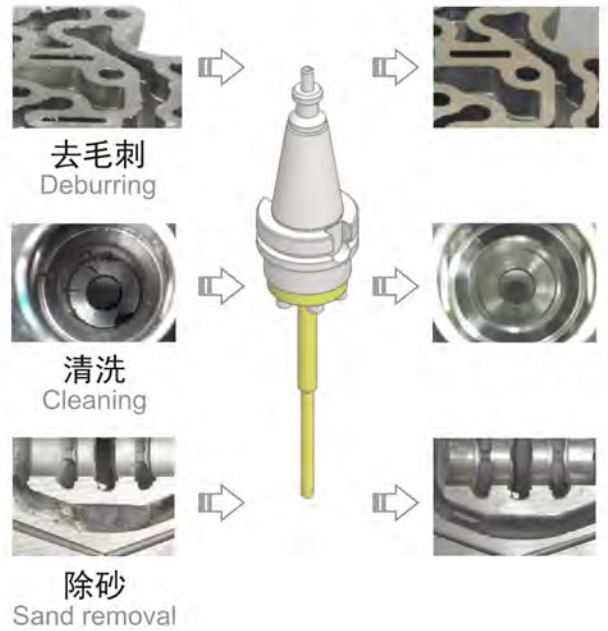
数控系统
Numerical control system

定制专机

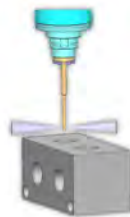
Custom machine

和氏高压水去毛刺清洗机，除了对工件进行清洗、去毛刺、除砂基本工作，还可与机械手完美结合，组成自动上下料的柔性生产系统，能够极大地节约人工成本，提高生产效率。

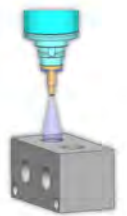
HESH high-pressure water deburring cleaning machine, in addition to the basic work of cleaning, deburring and sand removal of parts and products, can also be perfectly integrated with the manipulator to form a flexible production system for automatic loading and unloading, which can greatly save labor costs and improve production efficiency.



侧喷
Side spray



喷内孔
Spray hole



正喷
Positive spray



喷扫表面
Spray surface

项目/Project	规格/Specification
高压泵/High-pressure pump	50MpaX29L/min
行程/Stroke	X=800;Y=500; Z=500
移动速度/Speed	30m/min (XYZ)
重复定位精度/Accuracy	±0.05
喷嘴规格/Nozzle	Bt40互换 (自动换刀)
主轴最高转速/Spindle speed	300r/min (50Mpa)
数控系统规格 Numerical control system	MITSUBISHIM70V
电源功率/Power	55KVA

诚招各地经销合作者

Sincerely invite all distribution partners

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