



深圳市远望工业自动化设备有限公司

SHENZHEN YUANWANG INDUSTRY AUTOMATION EQUIPMENT CO., LTD.

为客户所想 做客户所需

Do what customers want, Provide what customers need

深圳市远望工业自动化设备有限公司

Shenzhen Yuanwang Industry Automation Equipment Co., Ltd.

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生产基地: 东莞市长安镇上沙社区中南海路6号科谷工业园7栋

Factory Add: No.7 Building, Kegu Industrial Park, Zhongnan South Rd, Shangsha comm, Chang'an TWN, Dongguan City, Guangdong Prov.



为客户所想

Do what customers want

做客户所需

Provide what customers need

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# 深圳运营总部 HQ-SHENZHEN



- 总部营销、研发中心位于深圳市会展湾中港广场，紧邻深圳国际会展中心
- 交通便利：距离深圳宝安国际机场15分钟车程
- Our Marketing & R&D Center is located at Shenzhen Exhibition Bay Zhonggang Plaza, next to the Shenzhen World Exhibition & Convention Center..
- Convenient Transportation:  
➔ 15 mins from Shenzhen Bao'an International Airport

# 关于远望 About Yuanwang

深圳市远望工业自动化设备有限公司集研发、生产、销售、服务于一体，为客户提供工业自动化智能装备一站式解决方案。深耕汽车工业智能化产线，视觉、气密、电性检测装备，氢能智能装备，半导体智能装备。

Shenzhen Yuanwang Industry Automation Equipment Co., Ltd. is a high-tech enterprise dedicated to providing advanced industrial automation system solutions and equipment for customers, integrating R&D, manufacturing, sales & after-sales service and deeply cultivating in intelligent equipment of automotive, vision, air tightness, electrical test, hydrogen energy, and semi-conductor.

创立于2004年  
Founded in 2004

在职员工  
350+  
Employees  
350+

国家级证书 2+  
省市级荣誉 10+  
专利技术 150+  
National Certificate 2+  
Provincial and municipal honors 10+  
patented technologies 150+

总部：深圳宝安区会展湾中港广场  
生产基地：东莞长安 > 20000m<sup>2</sup>  
HQ: Bao'an District, Shenzhen  
PB: Chang'an, Dongguan > 20000m<sup>2</sup>

通过ISO9001、  
ISO45001、ISO14001认证  
Certification: ISO9001、  
ISO45001、ISO14001

# 东莞制造基地 BP-Dongguan Chang'an



- 集研发设计
- 生产制造
- 供应链采购
- 品控、物控
- 总装售后调试为一体的交付中心
- Dongguan branch is the integrated center of R & D, manufacturing, procurement, quality control, assembly and commissioning .

## 远望发展历程 Yuwang History



## 各类资质认证确保质量标准 Certifications



## 荣获各类授权专利 Patents



## 企业文化 Company Culture

积极进取 Proactive  
敢于拼搏 Dare to fight  
分享胜利 Share the victory

美好愿景  
Precision Without Vision

核心价值观  
Value

在智能装备领域  
In The Field of Smart Equipment

追求完美  
Pursuing Perfection

持续改进  
Keep Improving

无所不能  
Omnipotent

无所不精  
Precision Without Limits  
Solutions Without Boundaries






为客户所想  
For What You Think

做客户所需  
Do What You Need

## 业务领域 Business Domain

<p><b>汽车智能产线</b> Automotive intelligent production line</p> <p>燃油箱智能产线 Fuel tank intelligent production line (市场占有率4.5%行业第一) (45% market share)</p> <p>内外饰智能装备 Interior and exterior trim intelligent equipment</p> <p>热管理智能装备 Thermal management intelligent equipment</p> <p>激光焊接、切割设备 Laser welding and cutting equipment</p> <p>功能模块智能装备 Function module intelligent equipment</p> <p><b>Delivery QTY 10000+</b></p> 	<p><b>视觉/气密/电性检测装备</b> Visual/airtight/electrical testing equipment</p> <p>视觉外观、缺陷检测 Vision: Detect appearance and defects</p> <p>EOL灯检 EOL lamp detection</p> <p>漏检漏 Helium leak detection</p> <p>超声波检漏 Ultrasonic leak detection</p> <p>模块功能性检测 Module functional detection</p> <p><b>Delivery QTY 500+</b></p> 	<p><b>氢能智能装备</b> Hydrogen intelligent equipment</p> <p>氢瓶全自动装配检测线 Hydrogen cylinder automatic assembly test line</p> <p>绕线机 Hydrogen cylinder winding machine</p> <p>固化炉 Oven machine</p> <p>内胆瓶红外焊接切割 Internal bottle infrared welding cutting</p> <p><b>Delivery QTY 40+</b></p> 	<p><b>半导体智能装备</b> Semiconductor intelligent equipment</p> <p>半导体芯片测试分选打标 Semiconductor chip test sorting marking machine</p> <p>编带收盘机 Braid closing machine</p> <p>等离子清洗机 Plasma machine</p> <p>芯片包装产线 Chip package production line</p> <p><b>Delivery QTY 3000+</b></p> 
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## 远望优势 Core Advantages

<p><b>技术积累</b> Technology</p> <p>实用新型专利120+ Patent120+</p> <p>软件著作权30+ Software copyright30+</p> <p>视觉专利10+ Vision patent10+</p> <p>发明专利8+ Invention patent8+</p> 	<p><b>产品研发</b> R&amp;D</p> <p>研发投入占全年营收 &gt;12.8% R&amp;D investment accounted for the annual revenue &gt;12.8%</p> <p>机械研发人员100+ Mechanical engineer 100+</p> <p>程序软件研发人员70+ Program&amp;Software 70+</p> <p>调试工程师50+ After-sale engineer 50+</p> 	<p><b>供应链管理</b> Supply</p> <p>成本控制 Cost control</p> <p>高效交付 Efficient delivery</p> <p>品质保障 Quality control</p> <p>灵活控制 Flexible control</p> <p>风险应对 Risk control</p> 	<p><b>品控与制造</b> Manufacture &amp; Quality Control</p> <p>精密制造设备80+ Precision manufacture equipment 80+</p> <p>精密品检仪器30+ Precision inspection instrument 30+</p> <p>实验用仪器设备10+ Experimental equipment 10+</p> 	<p><b>产业实践</b> Experience</p> <p>头部客户应用2000+ Customer application 2000+</p> <p>出品国家20+ Global sales country 20+</p> <p>服务站10+ Service station 10+</p> 
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## 核心能力 Core Capacity

### 强大的技术积累与研发能力

Strong technological experience and design capability

集机器人应用、视觉检测成像、超声波焊接、激光焊接、切割应用、无开孔、热板焊接、热铆焊接、红外焊接、旋转磨擦焊、震动摩擦焊、氮检漏、气密检漏，超声波水检应用、各种性能测试、螺钉锁付、点胶、涂胶、喷胶、MES软件系统开发，电子功能模块开发

Application Fields of Our Equipment:

#### 1. Robotic Applications

#### 2. Advanced Welding Technologies

#### 3. Precision Testing & Inspection

- Vision inspection & imaging
- Helium leak testing
- Air-tightness testing
- Ultrasonic water immersion testing

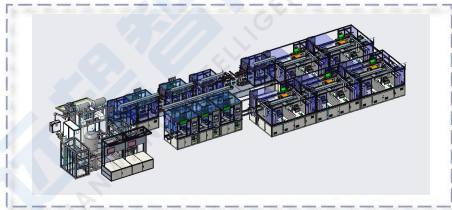
#### 4. Fastening & Dispensing Solutions

#### 5. Digital & Electronic Systems

- MES software development
- Electronic control module development
- Set robot application, visual

通用化功能  
General function

定制化开发  
Customized development



### 模块化设计:

应用可切换、位置可变更、穿插应用  
Modular design: Applications can be switched, position can be changed, and interspersed applications

## 汽车智能产线——燃油箱全产业链智能产线

## Automotive Intelligent Line - Production of the Whole Chain of Fuel Tank



油箱焊接装备  
Fuel tank boring&welding machine



水冷定型装备  
Water cooling Machine



水冷定型架  
Water cooling Fixture



水冷自动化装备  
Water cooling automation machine



自动修边装备  
Automatic deflashing machine



燃油箱装配线  
Fuel tank assembly line

## 燃油箱智能产线 Fuel Tank Intelligent Production Line



**油箱打孔焊接机  
Fuel tank boring and welding machine**

- 自动上下料
- 无屑切孔
- 致密焊接
- 自动装配
- 冲孔
- 镶嵌
- 旋转摩擦焊接
- 涂油
- 镶套
- Automatic loading and unloading
- Chip free cutting hole
- Tight welding
- Automatic assembly
- Punching
- Embed
- Spin welding
- Apply Oil
- Bushing



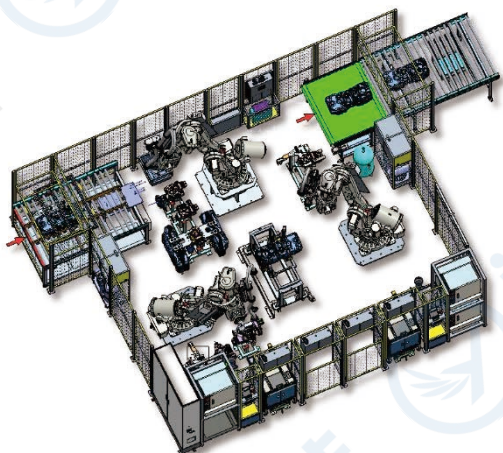
## 燃油箱智能产线 Fuel Tank Intelligent Production Line



**全自动油管焊接机  
Automatic filler pipe welding machine**

- 机器人运用
- 循环线
- 24S生产一个产品
- 气密性测试
- 绝缘测试
- 无尘切孔
- 致密焊接
- 铆接镶套
- 密封圈安装
- 振动盘进料
- 倍速链循环进料
- Robot application
- Loop line
- 24S produces a product
- Air tightness test
- Insulation test
- Clean cutting holes
- Tight welding
- Riveted insert
- Seal mounting
- Bowl feeder feeding
- Double speed chain circulating feed

## 燃油箱智能产线 Fuel Tank Intelligent Production Line



**柔性化标准工作站  
Flexible standard line**

- 机器人柔性任意点加工
- 自动切换焊接单元
- 全自动上下产品
- 焊件自动送料
- 快速切换产品版本
- 致密焊接
- 无尘切孔
- 旋转摩擦焊接
- Robot flexible arbitrary point machining
- Automatic switching of welding units
- Automatic loading and unloading
- Automatic solder feeding
- Quickly switch product versions
- Tight welding
- Clean cutting holes
- Rotary friction welding

## 燃油箱智能产线 Fuel Tank Intelligent Production Line



**水冷定型机  
Water Cooling Machine**

- 双工位独立运行降低CT时间
- 自动水循环系统，恒定温度冷却
- 机械锁位装置安全稳定
- 产品独立喷淋，冷却到产品每一个面
- 多种压力控制方式，根据需要可调
- 可外接与机器做自动化系统集成，减少人工
- Dual station independent operation reduces CT
- Automatic water circulation system, constant temperature cooling
- The mechanical locking device is safe and stable
- The product is sprayed independently and cooled to each side of the product
- Various pressure control methods, adjustable according to needs
- Can be connected to the machine to do automation system integration, reduce labor

## 燃油箱智能产线 Fuel Tank Intelligent Production Line



### 水冷产线自动化 Water cooling automation machine

- 快速自动换型
- 全自动无需人工参与
- 一键版本切换
- 可适用不同产品
- 激光打码
- 自动称重
- 节省空间，提升场地利用率
- Fast automatic changeover
- Fully automatic without human involvement
- One-click version switch
- Applicable to different products
- Laser coding
- Automatic weighing
- Save space and improve site utilization

## 汽车智能产线——内外饰智能装备 Automotive Intelligent Line - Interior & Exterior Trim Equipment



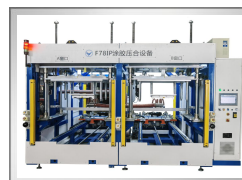
## 燃油箱智能产线 Fuel Tank Intelligent Production Line



### 装配流水线 Assembly line

- 自动翻转定位
- 自动嵌环锁紧
- 自动插管
- 电性能测试
- 气密性测试
- 视觉检测
- 自动扫码
- Automatic rollover positioning
- Automatic ring locking
- Automatic intubation
- Electrical performance test
- Air tightness test
- Visual detection
- Automatic code scanning

## 汽车智能产线——内外饰智能装备 Automotive Intelligent Line - Interior & Exterior Trim Equipment



机器人涂胶压合装备  
Robot gluing and pressing machine



双机器人喷胶装备  
Glue spraying machine of dual robot



门板焊接打螺丝装备  
Door welding and screwing machine



门板超声波焊接装备  
Ultrasonic welding machine of door panels



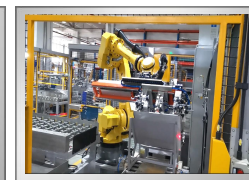
立柱焊接装备  
Pillar welding machine



仪表盘超声波焊接装备  
Ultrasonic welding machine of instrument panel

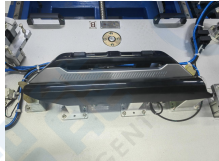


卡扣装配检测装备  
Buckle assembly testing machine



铝饰板全自动分离装备  
Aluminum trim plate automatic separation machine

## 内饰智能装备 Interior Trim Equipment



### 内饰氛围灯涂胶压合装备 Interior atmosphere light coating and pressing equipment

- 机器人涂胶
- 胶量检测系统
- 双工位交叉独立工作台
- 红外保温
- 伺服压合
- 自动条码打印系统
- CT时间 < 4.5 S
- Robot gluing
- Glue measurement system
- Double station independent work table
- Infrared insulation
- Servo pressing
- Automatic bar code printing system
- CT < 4.5 S

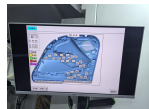
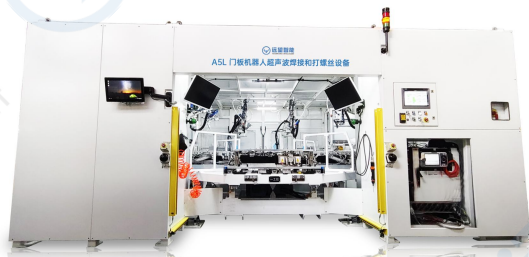
## 内饰智能装备 Interior Trim Equipment



### 双机器人喷胶固化装备 Dual robots spray curing equipment

- 转台式双工位
- 双机器人喷胶
- 胶水称重精密计量系统
- 胶水清洗系统
- 防爆除尘预警系统
- 恒温定时流水线烤箱
- Rotary table double stations
- Dual robots spray glue
- Glue weighing precision measuring system
- Glue cleaning system
- Explosion-proof dust removal early warning system
- Constant temperature timing pipeline oven

## 内饰智能装备 Interior Trim Equipment



### 门板焊接打螺丝装备 Door plate welding and screwing equipment

- 四工位旋转工作台
- 机器人循环超声波焊接
- 螺钉自动送钉、锁付
- 快换模具、自动切换版本
- 数据实时采集跟踪系统
- 视频监控系統
- 自动条码打印系统
- MES系统通信
- CT时间 < 60 S
- Four-station rotary table
- Robot circulating ultrasonic welding
- Screw automatic screw feed, lock payment
- Quick mold change, automatic version switch
- Real-time data acquisition and tracking system
- Video surveillance system
- Automatic bar code printing system
- MES system communication
- CT < 60 S

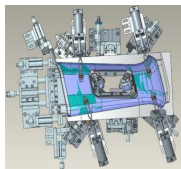
## 内饰智能装备 Interior Trim Equipment



### 门板超声波焊接装备 Ultrasonic welding equipment for door panel

- 伺服3轴超声波焊接机械手
- 多组焊接库，焊接单元自动切换
- 多焊点同时焊接，自动防撞
- 一键切换版本系统
- CT时间 < 40 S
- Servo 3 axis ultrasonic welding manipulator
- Multiple groups of welding library, automatic switching of welding units
- Multi welding points at the same time, automatic collision avoidance
- Switch the version system with one click
- CT < 40 S

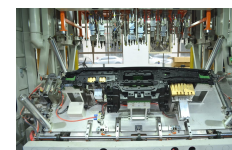
## 内饰智能装备 Interior Trim Equipment



### 立柱红外包边装备 Pillar infrared edging equipment

- 双工位同时包边
- 气缸压合
- 自动二级推边、包边
- 包胶底模
- 红外加热温度自动调节
- CT时间<40S
- Double station wrapping at the same time
- Cylinder clamping
- Automatic two-stage edge pushing and wrapping
- Coated rubber bottom mold
- Automatic adjustment of infrared heating temperature
- CT<40S

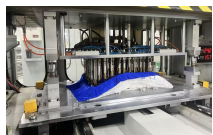
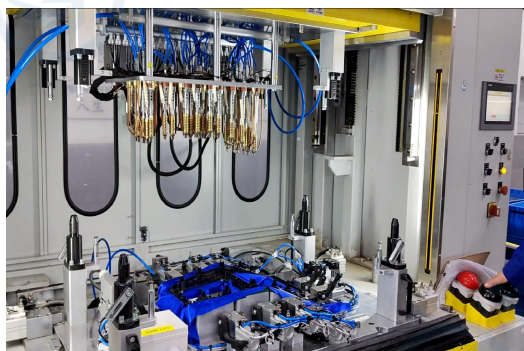
## 内饰智能装备 Interior Trim Equipment



### 仪表板超声波焊接装备 Ultrasonic welding equipment of instrument panel

- 柔性双机器人超声波焊接
- 自动焊头库，自动切换加工头
- 自动换模，适用多种版本产品
- 自动预压
- 伺服翻转工作台
- CT时间<40S
- Flexible double robot ultrasonic welding
- Automatic welding head library, automatic switching machining head
- Automatic tools change, suitable for a variety of versions of products
- Automatic preloading
- Servo turnover table
- CT<40S

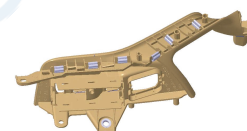
## 内饰智能装备 Interior Trim Equipment



### 中控热铆焊接装备 Central control hot riveting welding equipment

- PID温控系统±5°C
- 伺服压合系统
- 自动换模，适用多种版本产品
- 自动预压系统
- 自动冷却系统
- 包胶底模
- CT时间<45S
- PID temperature control system ±5°C
- Servo pressing system
- Automatic tools change, suitable for a variety of versions of products
- Automatic preloading system
- Automatic cooling system
- Coated rubber bottom mold
- CT<45S

## 内饰智能装备 Interior Trim Equipment



### 卡扣装配检测装备 Testing machine of buckle assembly

- 人工预装
- 双工位同时压合
- 快速换模机构
- 自动压合卡扣
- 包胶底模
- 视觉成品检测
- CT时间<25S
- Manual preassembly
- Double station simultaneous pressing
- Quick die changing mechanism
- Automatically press the buckle
- Coated rubber bottom mold
- Visual product inspection
- CT<25S

## 内饰智能装备 Interior Trim Equipment



### 铝饰板全自动分离装备 Aluminum trim plate automatic separation equipment

- 铝片自动上下料
- 薄铝板自动分离机构
- 单、双张自动检测
- 红外定位
- 无损搬运
- 分离铝板厚度0.35-0.45mm
- CT时间<12S
- Automatic loading and unloading of aluminum sheet
- Thin aluminum plate automatic separation mechanism
- Single and double sheet automatic detection
- Infrared location
- Lossless handling
- The thickness of the separated aluminum plate is 0.35-0.45mm
- CT<12S



## 汽车智能产线——外饰智能装备 Automotive Intelligent Line - Exterior Trim Equipment



轮罩焊接设备  
Wheel cover welding equipment



外扰流板穿孔焊接设备  
Punch welding equipment for external spoiler



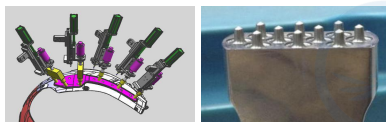
保险杠柔性冲孔焊接一体机  
Flexible punching and welding machine for bumper

## 外饰智能装备 Exterior Trim Equipment



### 轮罩焊接设备 Wheel cover welding equipment

- 双窗口操作
- 超声波熔透焊接
- 自动预压系统
- 移动焊接模组
- CT时间<25S
- Double-window operation
- Ultrasonic penetration welding
- Automatic preloading system
- Mobile welding module
- CT<25S

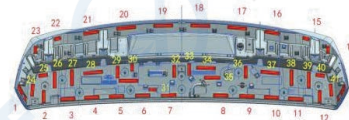


## 外饰智能装备 Exterior Trim Equipment

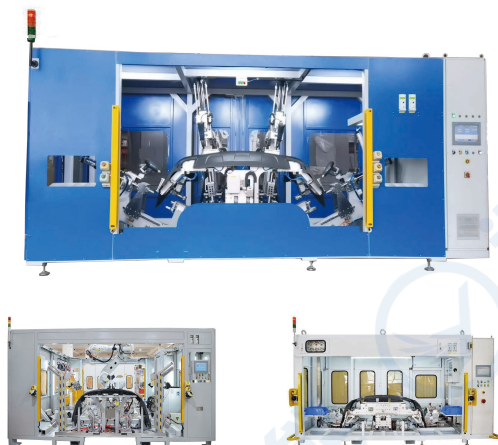


### 外扰流板穿孔焊接设备 Punch welding equipment for external spoiler

- 自动快换模系统
- 自动预压系统
- 超声波穿刺焊接
- 包胶底模
- CT时间<35S
- Automatic quick tools change system
- Automatic preloading system
- Ultrasonic puncture welding
- Coated rubber bottom mold
- CT<35S



## 外饰智能装备 Exterior Trim Equipment



**保险杠冲孔焊接一体机  
Punching and welding machine for bumper**

- 机器人/机械手自动冲孔
- 预热系统
- 工模快速更换系统
- 移动升降工作台
- 自动夹紧系统
- 超声波穿刺焊接
- Automatic punching by robot/manipulator
- Preheating system
- Tools quick change system
- Moving lifting table
- Automatic clamping system
- Ultrasonic puncture welding

## 激光焊接设备 Laser Welding Equipment



**阀芯激光焊接设备  
Valve core laser welding equipment**

- 射束形状：点状或线状光斑
- 导向激光：<3mW
- 焊接方法：透射焊接
- 激光器波长：940nm或1064nm (根据材料吸收特性选择)
- 焊接速度：0.1-5m/min
- 光斑直径：0.1-2mm
- 激光功率：50-500W
- Beam shape: point-like or linear spot
- Guide laser: <3mW
- Welding method: transmission welding
- Laser wavelength: 940nm or 1064nm (selected according to material absorption characteristics)
- Welding speed: 0.1-5m/min
- Spot diameter: 0.1-2mm
- Laser power: 50-500W

## 激光切割设备 Laser Trimming Equipment



**双机器人激光切割设备  
Dual robots laser cutting equipment**

- 设备采用CO2激光 (波长10.6μm) 切割系统
- 切割精度±0.05mm
- 双工位转台，快速换模，适合多产品混线生产，更柔性，更高效
- 水冷系统，烟雾除尘系统，安全卷帘门，视频监控，扫码，机器人虚拟仿真，MES等工控集成一体
- The equipment adopts CO2 laser (wavelength 10.6μm) cutting system
- Cutting accuracy ±0.05mm
- Double station turntable, fast mold change, suitable for multi-product mixed line production, more flexible, more efficient
- Water cooling system, smoke dust removal system, safety curtain door, video surveillance, code scanning, robot virtual simulation, MES and other industrial control integration

## 塑料加工设备 Plastic Processing Equipment

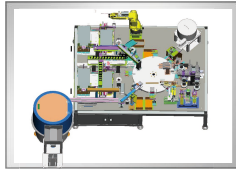


**5轴塑料加工设备  
5 axis plastic processing equipment**

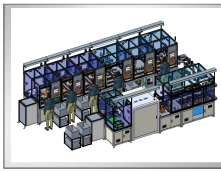
- 5轴联动设计
- 多角度、多曲面加工
- 4轴同步插补，减少装夹次数，提升加工效率30%+
- 高精度伺服驱动系统
- 定位精度±0.01mm
- 适用材料：ABS、亚克力、尼龙、PC等工程塑料
- 高速切削 (转速≥30000rpm) + 智能路径优化，缩短加工周期
- 5 axis linkage design
- Multi-angle, multi-surface machining
- 4 axis synchronous interpolation, reduce the number of clamping, improve the processing efficiency by 30%+
- High precision servo drive system
- Positioning accuracy ±0.01mm
- Applicable materials: ABS, acrylic, nylon, PC and other plastics
- High-speed cutting (speed ≥30000rpm) + intelligent path optimization, shorten the processing cycle

## 汽车智能产线——功能模块智能装备

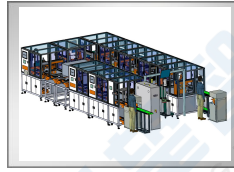
### Automotive Intelligent Line - Function Module Intelligent Equipment



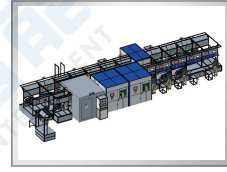
液位传感器智能产线  
Liquid level sensor  
intelligent production line



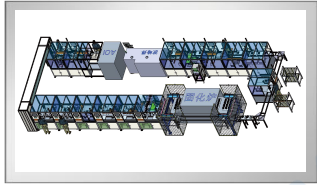
多通水阀自动装配生产线  
Multi water valve  
automatic assembly line



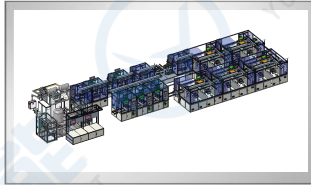
汽车域控制器智能产线  
Auto domain controller  
intelligent production line



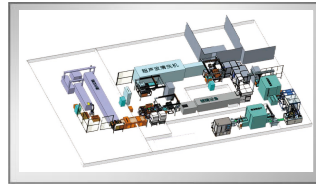
汽车空调智能装配检测产线  
Auto air conditioner intelligent  
assembly inspection line



汽车水加热器模块智能产线  
Auto water heater module intelligent  
production line



热管理集成模块智能产线  
Thermal management integrated  
module intelligent production line



汽车后视镜智能产线  
Auto rearview mirror intelligent  
production line

## 功能模块智能装备

### Function Module Intelligent Equipment



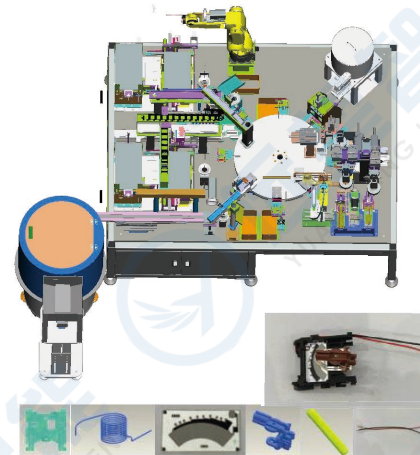
多通水阀智能装配线  
Multi-pass water valve intelligent  
assembly line

- 自动上下料
- 激光打标
- 密封件安装
- 伺服压装
- 螺栓自动锁付
- 扭矩测试
- 零点校准
- 气密性测试
- EOL测试
- NVH测试
- 产线MES
- CT时间<50S
- Automatic loading and unloading
- Laser coding
- Seal installation
- Servo pressing
- Bolt automatic lock payment
- Torque test
- Zero calibration
- Air tightness test
- EOL test
- NVH testing
- Production line MES
- CT<50S



## 功能模块智能装备

### Function Module Intelligent Equipment

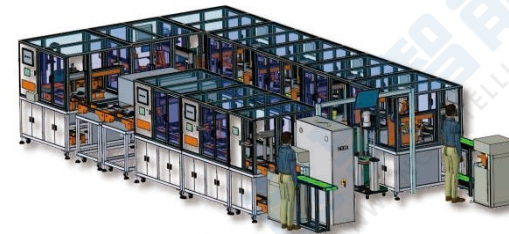


液位传感器智能产线  
Liquid level sensor intelligent  
production line

- 兼容多种版本来料
- 伺服多工位分割器
- CCD视觉检测 (污渍, 划痕, 焊点, 裂缝, 歪斜自动检测)
- 铆压
- 机器人柔性装配
- 自动焊锡
- 自动弹簧安装
- CT时间<15S
- Compatible with multiple versions of incoming materials
- Servo multi-station divider
- CCD visual inspection (automatic detection of stains, scratches, solder joints, cracks, skew)
- Rivet pressure
- Robot flexible assembly
- Automatic soldering
- Automatic spring mounting
- CT<15S

## 功能模块智能装备

### Function Module Intelligent Equipment

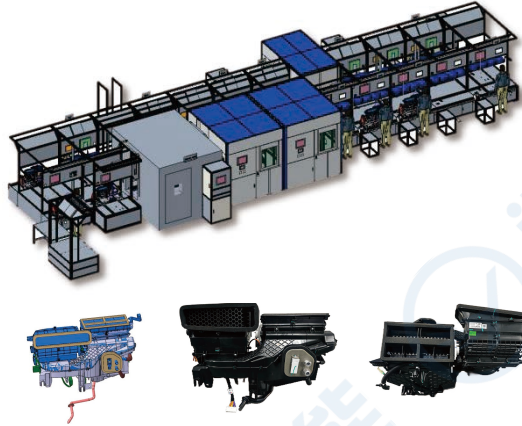


汽车域控制器智能产线  
Automotive domain controller  
intelligent production line

- 整线16站, 兼容多款产品
- 螺钉自动送钉、锁付
- FCT测试
- 恒温固化
- 波峰焊
- 自动点胶
- 机器人搬运
- 热铆焊接
- EOL测试
- 产线MES
- CT时间<60S
- The whole line is 16 stations, compatible with many products
- Screw automatic screw feed, lock payment
- FCT test
- Constant temperature curing
- Wave soldering
- Automatic dispensing
- Robot handling
- Heat stake welding
- EOL test
- Production line MES
- CT<60S



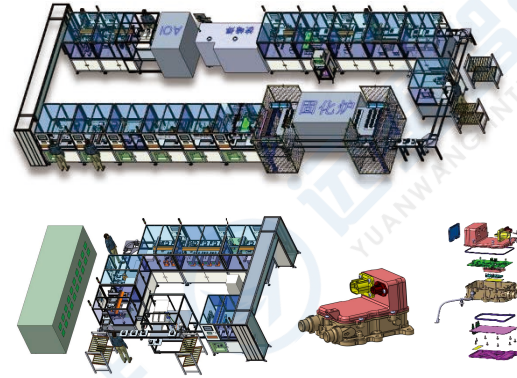
## 功能模块智能装备 Function Module Intelligent Equipment



### 汽车空调智能装配检测产线 Auto air conditioner intelligent assembly inspection production line

- 倍速链自动传送
- 视觉引导机器人螺钉锁付
- 自动涂油
- 噪音测试
- 流量测试
- 人工装配线束
- 气密性测试
- 电性功能测试
- 视觉外观检测
- MES系统集成等
- CT时间<65S
- The double speed chain automatically transmits
- Vision guided robot screw lock payment
- Automatic oiling
- Noise test
- Flow test
- Manual wiring harness assembly
- Air tightness test
- Electrical function test
- Visual appearance detection
- MES system integration, etc
- CT<65S

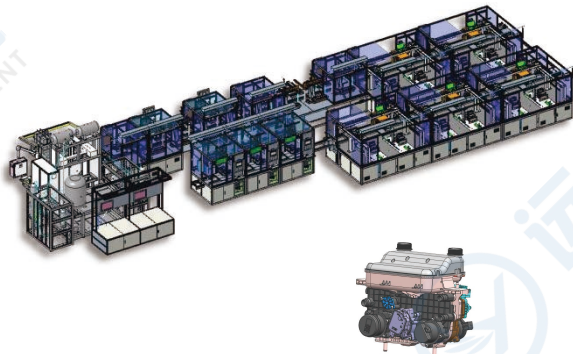
## 功能模块智能装备 Function Module Intelligent Equipment



### 汽车水加热器模块智能产线 Automotive water heater module intelligent production line

- 整线24站，多版本切换
- 集成倍速链自动传送
- 视觉引导自动翻转装配
- 视觉引导自动送螺钉、锁付
- 波峰焊
- 喷UV胶、紫光固化
- 点热硅胶
- 涂密封胶
- 伺服压合
- 固化炉
- 老化测试
- EOL、AOI、FCT功能检测
- 外观缺陷检测
- The whole line is 24 stations, multi-version switching
- Integrated double speed chain automatic transfer
- Visual guide automatic flip assembly
- Visual guide automatic screw feed, lock payment
- Wave soldering
- Spray UV glue, purple curing
- Hot silica gel
- Apply sealant
- Servo pressing
- Curing furnace
- Aging measurement
- EOL, AOI, FCT functional test
- Appearance defect detection

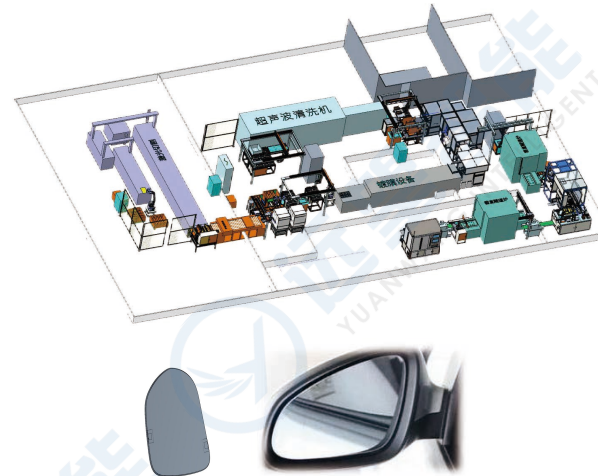
## 功能模块智能装备 Function Module Intelligent Equipment



### 热管理集成模块智能产线 Thermal management integrated module intelligent production line

- 倍速链自动传送，适应多版本切换
- 氦检漏
- 视觉引导自动送钉、锁付
- 视觉缺陷检测
- 自动涂油
- 伺服压装
- EOL测试
- 气密性测试
- 激光打标
- 产线MES
- CT时间<60S
- Double speed chain automatic transmission, adapt to multi-version switching
- Helium leak detection
- Visual guidance automatic nail, lock payment
- Visual defect detection
- Automatic oiling
- Servo pressing
- EOL test
- Air tightness test
- Laser coding
- Production line MES
- CT<60S

## 功能模块智能装备 Function Module Intelligent Equipment



### 汽车后视镜智能产线 Auto rearview mirror intelligent production line

- 整线20站，全自动上下料
- 集成机器人玻璃激光切割
- 自动研磨
- 镜面抛光
- 超声波清洗
- 真空镀膜
- 自动点胶
- 自动罐液
- 伺服压合
- 自动封边
- 喷三防漆
- 固化炉
- AGV转运
- The whole line 20 stations, automatic loading and unloading
- Integrated robotic glass laser cutting
- Automatic grinding
- Mirror polishing
- Ultrasonic cleaning
- Vacuum coating
- Automatic dispensing
- Automatic tank
- Servo pressing
- Automatic edge sealing
- Spray three anti-paint
- Curing furnace
- AGV transport

## 视觉/气密/电性检测装备

### Visual/Airtight/Electrical Testing Equipment



视觉外观、缺陷检测  
Visual detection in  
appearance & defect



EOL灯光检测  
EOL light detection



氦检漏  
Helium leak detection



超声波检漏  
Ultrasonic leak  
detection



气密性检测  
Air tightness test



电性检测  
Electrical detection



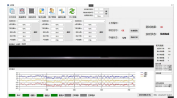
老化测试设备  
Burn-in test equipment



模块EOL功能性检测  
Module EOL functional  
detection

## EOL灯光检测

### EOL Light Detection Equipment



#### 氛围灯EOL灯光检测 Atmosphere light EOL light detection equipment

- 专业定制化及多功能辅助软件操作应用集成系统
- 自主开发软件平台
- 兼容多产品配方设计
- 功能模块升级方便拓展性强
- 高效处理图像数据
- 精准识别分析灯条亮度变化
- 汽车/半导体/新能源等领域的精密检测，涵盖外观缺陷视觉检测识别功能等
- Professional & customized and multi-function auxiliary application of software operating system
- Independently develop software platform
- Compatible with multi-product formula design
- The function module is easy to upgrade with strong expansion function
- Efficient processing of image data
- Accurately identify and analyze the brightness change of the lamp strip
- Precision inspection in automotive/semiconductor/new energy, covering visual inspection and recognition of appearance defects.

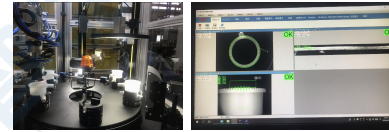
## 视觉外观、缺陷检测

### Visual Detection in Appearance & Defect Equipment



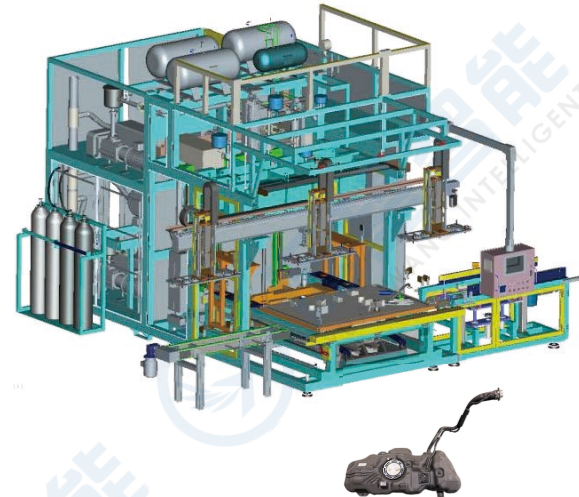
#### 视觉检测设备 Visual inspection equipment

- 自主开发核心检测算法与软件平台
- 高精度光学视觉系统
- 智能补偿技术（模块化视觉/灯光灰度自适应）
- 传统算法与AI深度集成
- 应用领域：汽车/半导体/新能源等领域的精密检测，涵盖2D/3D视觉检测、外观缺陷识别、字符及灰度值分析等
- Independently developed core detection algorithm and software platform
- High precision optical vision system
- Intelligent compensation technology (modular vision/light gray scale adaptive)
- Deep integration of traditional algorithms and AI
- Applications: Precision inspection in automotive/semiconductor/new energy, covering 2D/3D visual inspection, appearance defect recognition, character and gray value analysis, etc



## 氦检漏设备

### Helium Leak Detection Equipment



#### 汽车燃油箱氦检测设备 Auto fuel tank helium detection equipment

- 真空腔尺寸可以按照需求定制
- 机器检测周期实测65S
- 测试漏率  $2.17 \times 10^{-5}$  mbar<sup>\*</sup>/s
- 充氦气压力 10Kpa
- 带氦气回收回收率95%
- 氦气浓度10%-99.99%
- Vacuum chamber size can be customized according to requirements
- The machine detection cycle is 65S
- Test leakage rate  $2.17 \times 10^{-5}$  mbar<sup>\*</sup>/s
- Helium filling pressure 10Kpa
- With helium recovery rate of 95%
- Helium concentration 10%-99.99%

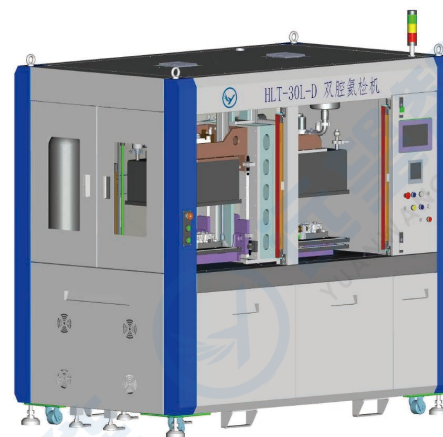
## 氦检漏设备 Helium Leak Detection Equipment



### 集成模块氦检测设备 Integrated module helium detection equipment

- 真空腔尺寸可以按照需求定制
- 机器检测周期50s
- 测试漏率  $1.0 \times 10^{-6}$  mbar<sup>4</sup>/l/s
- 充氮气压力
- 低压: 5—50KPa
- 中压: 0.5—35Bar
- 高压: 35—200Bar
- 带氮气回收回收率 $\geq 98\%$
- 氦气浓度10%-99.99%
- 兼容机器人自动化和倍速链方式
- Vacuum chamber size can be customized according to requirements
- Machine detection cycle 50s
- Test leakage rate  $1.0 \times 10^{-6}$  mbar<sup>4</sup>/l/s
- Helium pressure
- Low pressure: 5-50kpa
- Medium pressure: 0.5-35bar
- High pressure: 35-200bar
- With helium recovery rate  $\geq 98\%$
- Helium concentration 10%-99.99%, 做客所需
- Compatible with robot automation and double speed chain mode

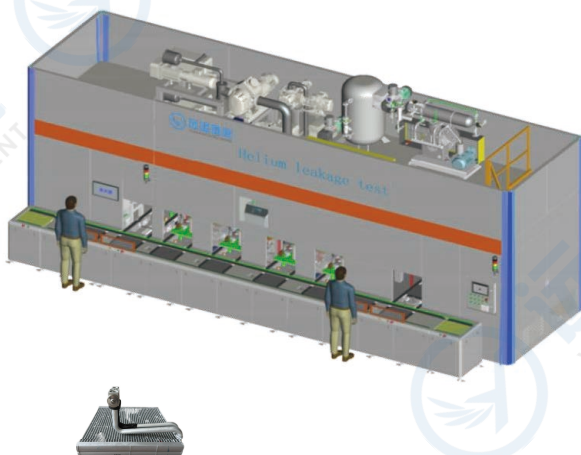
## 氦检漏设备 Helium Leak Detection Equipment



### 喷嘴、阀类氦检测设备 Helium test equipment for fuel injection nozzle and valve

- 真空腔尺寸可以按照需求定制
- 可多腔体多工位
- 机器检测周期45s
- 测试漏率  $1.0 \times 10^{-6}$  mbar<sup>4</sup>/l/s
- 充氮气压力
- 低压: 5—50KPa
- 中压: 0.5—35Bar
- 高压: 35—200Bar
- 带氮气回收回收率 $\geq 98\%$
- 氦气浓度10%-99.99%
- 兼容机器人自动化和倍速链方式
- Vacuum chamber size can be customized according to requirements
- Can be multi-cavity multi-station
- The machine detection cycle is 45s
- Test leakage rate  $1.0 \times 10^{-6}$  mbar<sup>4</sup>/l/s
- Helium pressure
- Low pressure: 5-50kpa
- Medium pressure: 0.5-35bar
- High pressure: 35-200bar
- With helium recovery rate  $\geq 98\%$
- Helium concentration 10%-99.99%
- Compatible with robot automation and double speed chain mode

## 氦检漏设备 Helium Leak Detection Equipment



### 空调蒸发器氦检测设备 Air conditioner evaporator helium detection equipment

- 真空腔尺寸可以按照需求定制
- 可多腔体多工位
- 机器检测周期14s
- 测试漏率  $1.0 \times 10^{-6}$  mbar<sup>4</sup>/l/s
- 充氮气压力
- 低压: 5—50KPa
- 中压: 0.5—35Bar
- 高压: 35—200Bar
- 带氮气回收回收率 $\geq 98\%$
- 氦气浓度10%-99.99%
- 兼容机器人自动化和倍速链方式
- Vacuum chamber size can be customized according to requirements
- Can be multi-cavity multi-station
- The machine detection cycle is 14s
- Test leakage rate  $1.0 \times 10^{-6}$  mbar<sup>4</sup>/l/s
- Helium pressure
- Low pressure: 5-50kpa
- Medium pressure: 0.5-35bar
- High pressure: 35-200bar
- With helium recovery rate  $\geq 98\%$
- Helium concentration 10%-99.99%
- Compatible with robot automation and double speed chain mode

## 超声波检漏 Ultrasonic Leak Detection Equipment



### 油箱超声波水检漏设备 Fuel tank ultrasonic water leak detection equipment

- 超声波水检测系统
- 龙门自动搬运
- 自动快换夹具适应不同版本
- 流水线送料
- 水箱循环、高精过滤系统
- 脱气系统
- 水缸自动夹紧
- 自动堵头
- Ultrasonic water detection system
- Gantry automatic handling
- Automatic quick change fixture adapts to different versions
- Line feed
- Water tank circulation, high precision filtration system
- Degassing system
- The water cylinder is automatically clamped
- Automatic plug

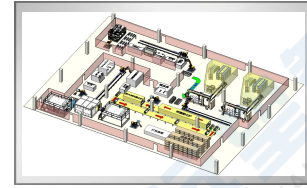
## 噪音检测设备 Noise Detection Equipment



### 风口噪音检测设备 Tuyere noise detection equipment

- 自动夹紧系统
- 吸音降噪密封仓
- 自动调节电机转动风门角度
- 模拟控制风速流量
- 检测噪音 < 35分贝
- Automatic clamping system
- Sound absorption and noise reduction sealing bin
- Automatic adjustment of motor rotation damper angle
- Simulated control of wind speed flow
- Noise < 35 dB

## 氢能智能装备 Hydrogen Intelligent Equipment



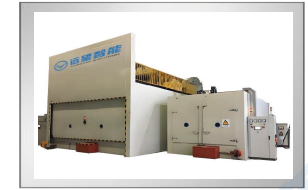
氢瓶全自动装配检测线  
Hydrogen bottle automatic assembly line test line



储氢罐缠绕机  
Winding machine for hydrogen storage tank



内胆瓶红外焊接切割  
Infrared welding cutting machine for Internal gall bottle



固化炉  
Oven machine

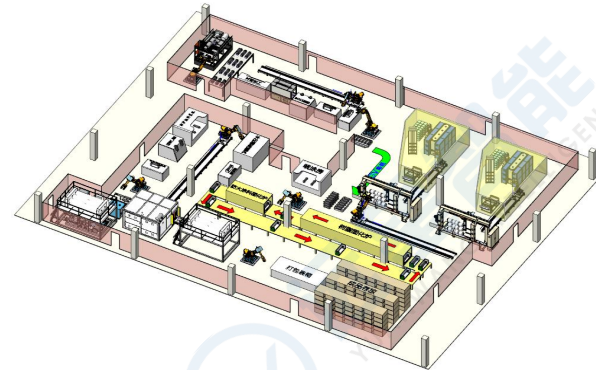
## 泄漏量检测设备 Leakage Detection Equipment



### 空调风口泄漏量检测设备 Air conditioner tuyere leakage detection equipment

- 送风系统
- 送风流量控制系统
- 自动密封堵头
- 风门摆动系统
- 循环气流测量系统
- Air supply system
- Supply air flow control system
- Self-sealing plug
- Damper swing system
- Circulation airflow measurement system

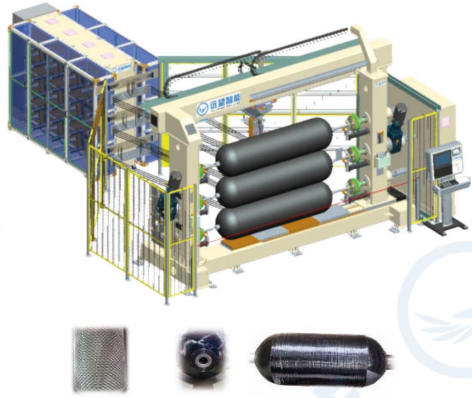
## 氢瓶全自动装配检测线 Hydrogen Bottle Automatic Assembly Test Line



### 氢能源-- IV型储氢瓶生产线解决方案 Hydrogen energy - Type IV hydrogen storage bottle production line

- 瓶端口装配检测
- 红外焊接
- 碳纤维缠绕
- 固化、喷涂、氢测漏、功能检测
- 管件装配
- 机器人自动上下料
- AGV搬运
- Bottle port assembly test
- Infrared welding
- Carbon fiber winding
- Curing, spraying, hydrogen leak detection, functional testing
- Pipe and valve assembly
- Robot automatically loading and unloading
- AGV handling

## 氢能智能装备 Hydrogen Intelligent Equipment



- 可为客户提供缠绕代工、打样、固化、测试等工艺验证
- Can provide with winding, proofing, curing, testing and other process verification

### IV型储氢瓶缠绕机 Type IV hydrogen storage bottle winding machine

- 龙门式三工位、双驱主框架
- 碳纤、玻璃纤维缠绕系统
- 伺服张力控制系统
- 伺服电子纱架
- 恒温浸胶系统
- 5轴喂料小车
- 自动切纱系统
- 自动穿纱系统
- 自动充气、稳压系统
- 自动贴标
- 自动称重系统
- Gantry type three station, double drive main frame
- Carbon fiber, glass fiber winding system
- Servo tension control system
- Servo electronic yarn holder
- Constant temperature dipping system
- 5 axis feeding trolley
- Automatic yarn cutting system
- Automatic threading system
- Automatic inflation, pressure regulation system
- Automatic labeling
- Automatic weighing system

## 氢能智能装备 Hydrogen Intelligent Equipment



### 塑料内胆焊接机 Plastic liner welding machine

- 红外旋转焊接系统
- 伺服自动夹紧送料系统
- 自动铣削焊接工艺毛边
- 自动瓶身校正系统
- 适用于不同长度版本瓶身
- Infrared rotary welding system
- Servo automatic clamping feed system
- Automatic milling welding process raw edges
- Automatic bottle alignment system
- Suitable for different length versions of the bottle body

## 氢能智能装备 Hydrogen Intelligent Equipment



### 氢能源复材专用固化炉 Curing furnace for hydrogen energy composites

- 容积6000L-24000L, 可选配各种规格
- 模块PID独立温控
- 分区自动升降温系统
- 自动充压、保压系统
- 自动旋转系统
- 温度和压力监测系统
- Volume 6000L-24000L, various specifications can be selected
- Module PID Independent temperature control
- Zone automatic rising and cooling system
- Automatic pressure filling and pressure retaining system
- Automatic rotating system
- Temperature and pressure monitoring system

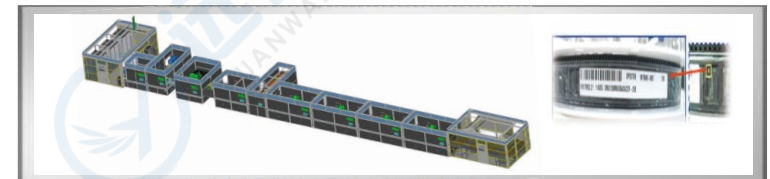
## 半导体智能装备 Semiconductor Intelligent Equipment



半导体芯片测试分选打标  
编带一体机  
Semiconductor chip test  
sorting&marking&braiding machine

编带收盘机  
Braid machine

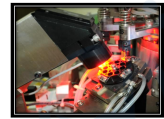
等离子清洗机  
Plasma machine



芯片包装产线  
Chip package production line

## 半导体芯片测试分选打标

### Semiconductor Machine-Chip Testing & Sorting & Marking



#### 1850测试分选编带打标一体机 1850 testing&sorting&marking machine

- 适用SOT、SOD、QFN、DFN、SOP各系列测试分选
- 旋转定位校正
- 电性功能测试
- 视觉分选识别
- 激光在线打标
- 编带盘式输出
- UPH50000/H
- Applicable to SOT, SOD, QFN, DFN, SOP series test sorting
- Rotary positioning correction
- Electrical function test
- Visual sorting recognition
- Laser online marking
- Braid disc output
- UPH 50000/H

## 编带收盘机

### Braid Machine

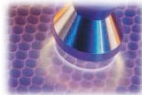


#### ARC30全自动收带机 ARC30 automatic braid machine

- 自动上下料系统
- 自动剪切载带
- 自动粘贴尾部胶带
- 满料盘自动落入收集仓
- Automatic loading and unloading system
- Automatic shear tape
- Automatic tail tape
- The full tray automatically falls into the collection bin

## 离子清洗机

### Plasma Machine

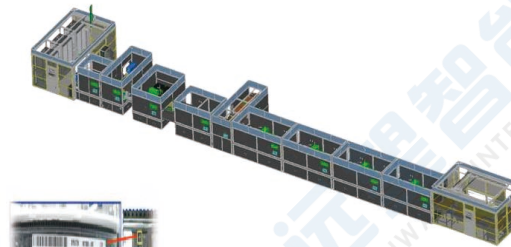


#### 等离子清洗机 Plasma machine

- 真空系统
- 5流道腔室同时处理
- 伺服自动进料系统
- 自动上片系统
- 离子表面处理系统
- CT时间<15S
- Vacuum system
- Simultaneous treatment of five-channel chamber
- Servo automatic feed system
- Automatic loading system
- Plasma surface treatment system
- CT<15S

## 芯片包装产线

### Chip Packaging production line



#### 芯片后段智能包装产线 Chip intelligent packaging production line

- 适应多种类型的托盘和卷盘
- 小车式批量进料
- 在线标签打印和粘贴
- 视觉检测系统
- 干燥剂和湿度显示卡自动放置
- 自动装袋抽真空系统
- 自动真空封口
- 自动称重
- 自动纸箱包装
- MES系统
- Adapt to many types of trays and reels
- Batch feeding of trolley type
- Label printing and pasting online
- Visual inspection system
- Desiccant and humidity display card are automatically placed
- Automatic bagging and vacuum pumping system
- Automatic vacuum seal
- Automatic weighing
- Automatic carton packing
- MES system

