

GOLDEN EAGLE

北京正盛鸿成电子科技有限公司

Illustrated Product Catalogue 产品图文目录

PCB · Metal · Chemical Etching Equipment

PCB · 金属 · 化学蚀刻成套设备

Beijing Golden Eagle Electronic Equipment Co., Ltd.

北京正盛鸿成电子科技有限公司

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Company Profile 公司简介

Beijing Golden Eagle Electronic Equipment Co., Ltd. is a professional manufacturer integrating R&D, equipment manufacturing, product processing and technical training. Headquartered in Daxing District, Beijing, with a 4,000 m² manufacturing facility, the company specializes in modern surface-treatment and photochemical process equipment — including PCB wet-process lines, metal and chemical etching systems, and complete turnkey production lines.

北京正盛鸿成电子科技有限公司是一家集研发、设备制造、产品加工与技术培训于一体的专业制造商。公司总部位于北京市大兴区，拥有约 4,000 平方米的生产基地，专注于现代表面处理与光化学工艺设备，产品涵盖 PCB 湿制程生产线、金属与化学蚀刻系统，以及整厂交钥匙生产线。

Guided by the philosophy of “Technological innovation, sincere service, customer first,” Golden Eagle provides comprehensive equipment customization — designing and manufacturing individual machines or complete production lines to each client’s needs, and handling everything from design and fabrication to installation, commissioning and technical training. With 20+ years of expertise and CE-certified equipment, our machines are trusted by customers in more than 40 countries worldwide.

公司秉承“技术创新、真诚服务、客户至上”的理念，提供全面的设备定制服务：根据客户需求设计制造单机或整线，并承接从设计、制造到安装、调试与技术培训的全流程工作。凭借 20 余年行业经验与 CE 认证设备，正盛鸿成的产品已获得全球 40 多个国家客户的信赖。

20+ Years 20 余年经验 **4,000 m²** 生产基地 **40+ Countries** 出口国家 **CE Certified**
CE 认证

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Product Categories 产品分类

1. PCB Etching Equipment PCB 蚀刻设备	10 items
2. Metal & Chemical Etching Equipment 金属与化学蚀刻设备	11 items
3. Plate-Making & Decorative Etching Equipment 制版与装饰蚀刻设备	16 items
4. Exposure & Developing Equipment 曝光与显影设备	16 items
5. Pretreatment, Cleaning & Stripping Equipment 前处理 · 清洗 · 去膜设备	20 items
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7. Drilling, Routing & Cutting Equipment 钻孔 · 锣边 · 裁切设备	16 items
8. Screen Printing & Coating Equipment 丝印与涂布设备	9 items
9. Laser Marking & Cutting Equipment 激光打标与切割设备	6 items
10. Drying & Curing Equipment 烘干与固化设备	8 items
11. Auxiliary Systems & Accessories 辅助系统与配件	1 items

1. PCB Etching Equipment PCB 蚀刻设备



1. PCB Etching Machine / PCB 蚀刻机

High-precision chemical etching equipment for printed circuit board manufacturing, providing uniform copper removal for single-sided, double-sided, multilayer, FR4 and aluminium boards.
用于印刷电路板制造的高精度化学蚀刻设备，可对单面板、双面板、多层板、FR4 板及铝基板进行均匀蚀铜。

Main Parameters 主要参数: Conveying speed: 0-6 m/min adjustable · Model: GE-JM650W · Board size: 120×80mm to 650×650mm · Dimensions: 2850×1280×1200mm · Spray type: Double side with oscillation · Resolution: 0.01g/L



2. High-Precision PCB Alkaline Etching Machine / 高精度 PCB 碱性蚀刻机

Designed for high-precision etching of double-sided and multilayer PCBs, LED boards and thin copper layers using alkaline ammonia chemistry.

专为双面板、多层板、LED 板及薄铜层的高精度蚀刻设计，采用碱性氨水蚀刻工艺。

Main Parameters 主要参数: Model: GE-AE650 · Power: 380V/50HZ/40kw · Min / Max board size: 120*80mm / 650*650mm · Develop type: Double Spray with Oscillate system · Working Temperature: 35~55 °C · Conveyor Speed: 0.5 ~ 6m/min



3. Aluminium PCB / FR4 Etching Machine / 铝基板 / FR4 蚀刻机

Spray-type etching machine for aluminium-based, FR4 and copper-clad laminates, delivering stable and uniform copper removal for single- and double-sided boards.

喷淋式蚀刻机，适用于铝基板、FR4 及覆铜板，为单/双面板提供稳定均匀的蚀铜效果。

Main Parameters 主要参数: Model: GE-JM650W · Power: 380V/50HZ /20kw · Min / Max board size: 120*80mm / 500*500mm · Etching system: Double Spray with Oscillate system · Working Temperature: 35~55 °C · Conveyor Speed: 0.5 ~ 6m/min



4. Ferric Chloride Etching Machine / 三氯化铁蚀刻机

A high-precision chemical milling system using ferric chloride chemistry for metal etching and PCB manufacturing.

采用三氯化铁工艺的高精度化学蚀刻系统，适用于金属蚀刻与 PCB 制造。

Main Parameters 主要参数: model: GE-SK9 · Power: 16kw/380V/50 hz · Temperature: RT to 65°C · Etching system: Double spraying & Oscillate nozzles · Tank Volume : 800L · Dimension size: 3550*1650*1550mm



5. PCB Etching & Washing Machine / PCB 蚀刻清洗机

Professional etching and washing machine with precision double-spray technology for high-quality double-sided and multilayer PCB production.

专业蚀刻清洗一体机，采用精密双面喷淋技术，适用于高品质双面板与多层板生产。



6. PCB DES Production Line / PCB DES 生产线

Inline Developing-Etching-Stripping (DES) line for continuous, automated PCB pattern transfer with stable spray and consistent yield.

显影—蚀刻—去膜 (DES) 一体化生产线，实现连续自动化的 PCB 图形转移，喷淋稳定、良率一致。

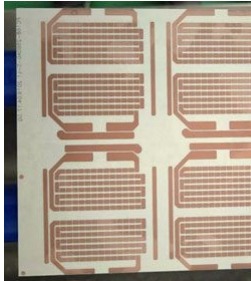
Main Parameters 主要参数: Model: GE-DES650 · Power: 380V/50HZ/48kw · Min / Max board size: 120*80mm / 500*500mm · Etching system: Double Spray with Oscillate system · Working Temperature: 35~55 °C · Conveyor Speed: 0.5 ~ 6m/min



7. Compact PCB Prototyping System / 小型 PCB 打样系统

An integrated benchtop system covering the full prototyping workflow — imaging, drilling, etching, developing and stripping — for labs, R&D and small batches.

集成式桌面系统，涵盖成像、钻孔、蚀刻、显影、去膜的完整打样流程，适用于实验室、研发与小批量生产。



8. PCB Prototype Lab Equipment / PCB 打样实验室设备

Specialized benchtop fabrication equipment for complete circuit development workflows, from imaging and drilling to etching and plating.

面向完整电路开发流程的专业桌面级制板设备，覆盖成像、钻孔、蚀刻到电镀各环节。



9. LED / FR4 / AL-CCL Manufacturing Line / LED / FR4 / 铝基板生产线

Complete production-line machinery for PCB and metal-substrate processing, configurable for LED boards, FR4 and aluminium copper-clad laminates.

面向 PCB 与金属基板加工的整线设备，可按 LED 板、FR4 及铝基覆铜板需求配置。



10. Complete PCB Manufacturing Line Solutions / PCB 整厂制造解决方案

Fully integrated manufacturing systems spanning the complete PCB production lifecycle — material preparation, photochemical processing, metallization and finishing.

贯穿 PCB 完整生产周期的整线集成系统，涵盖材料前处理、光化学加工、金属化与表面处理。

2. Metal & Chemical Etching Equipment 金属与化学蚀刻设备



11. Chemical Etching Equipment for Metal / 金属化学蚀刻设备

Advanced photochemical machining solution that removes material from metal surfaces with micron-level precision through controlled chemical reactions.

先进的光化学加工方案，通过受控化学反应以微米级精度去除金属表面材料。

Main Parameters 主要参数: model:GE-JM650-W · Power: 15kw/380V/50 hz · Temperature: RT to 65°C · Etching system: Double spraying & Oscillate nozzles · Tank Volume : 800L · Dimension size: 3850*1650*1550mm



12. High-Precision Chemical Etching Equipment for Metal / 高精度金属化学蚀刻设备

Wet-processing and chemical-milling system engineered for precision etching of stainless steel and other metal workpieces.

湿制程与化学蚀刻系统，专为不锈钢及各类金属工件的精密蚀刻而设计。

Main Parameters 主要参数: Spray Pressure: 2~4kg · Power Consumption: 48kW · Model: GE-SWD9 · Working size: W650mm*L (L= length is not limited) · Conveying Speed: 0~6m/min adjustable · Model Number: GE-JM650W



13. Professional Chemical Etching Equipment / 专业化学蚀刻设备

High-precision etching machines for both PCB manufacturing and general metal etching applications.

高精度蚀刻设备，适用于 PCB 制造及各类金属蚀刻应用。



14. Metal Etching Machine for Stainless Steel (JM650) / 不锈钢金属蚀刻机 (JM650)

The JM650 system is designed for high-precision chemical etching and photochemical machining of stainless steel.

JM650 系统专为不锈钢的高精度化学蚀刻与光化学加工而设计。

Main Parameters 主要参数: model: GE-JM650 · Power: 11.5kw/380V/50 hz · Temperature: RT to 65°C · Etching system: Double spraying & Oscillate nozzles · Tank Volume : 800L · Dimension size: 3550*1650*1550mm



15. JM650 Dual-Chamber Precision Etching System / JM650 双腔高精度蚀刻系统

Dual-chamber photochemical etching equipment for shadow masks, grids, shims, washers, sieves, meshes, encoders and SMT parts.

双腔光化学蚀刻设备，可加工荫罩、栅网、垫片、滤网、网孔、编码器及 SMT 零件等。

Main Parameters 主要参数: model: GE-JM650 · Power: 11.5kw/380V/50 hz · Temperature: RT to 65°C · Etching system: Double spraying & Oscillate nozzles · Tank Volume : 800L · Dimension size: 3550*1650*1550mm



16. Vertical Chemical Milling Machine / 立式化学蚀刻机

A vertical photoengraving machine that sprays etchant onto the surface of metal workpieces for precision chemical milling.

立式光刻蚀机，通过向金属工件表面喷淋蚀刻液实现精密化学铣切。

Main Parameters 主要参数: model: GE-TS650 · Power: 5.5kw/380V/50 hz · Temperature: RT to 65°C · Etching system: Double spraying & Oscillate nozzles · Tank Volume : 400L · Dimension size: 1850*1650*1550mm



17. Turntable Spray Etching Machine / 转盘喷淋蚀刻机

A photoengraving machine that sprays chemical etchant onto metal surfaces to etch images and patterns.

光刻蚀机，通过向金属表面喷淋化学蚀刻液来蚀刻图案与文字。



18. Industrial Chemical Milling Machine for Spinneret Dies (12-Chamber) / 喷丝板专用工业化学蚀刻机 (12腔)

A 12-chamber chemical milling system for high-precision metal etching, widely used in manufacturing spinneret dies and meltblown extrusion plates.

12腔化学蚀刻系统，用于高精度金属蚀刻，广泛用于喷丝板、熔喷挤出模板等工业金属部件的制造。

Main Parameters 主要参数: model:GE-JM650-12chamber · Power: 80kw/380V/50hz · Temperature: RT to 65°C · Etching system: Double spraying & Oscillate nozzles · Control system: Convey, Spray, Temperature, Pressure, Network filter · Working size: W650mm*L (L=length is not limited)



19. Stainless Steel Filter Mesh Chemical Milling Machine / 不锈钢滤网化学蚀刻机

Precision photochemical etching equipment with high tolerance control for bipolar plates, titanium meshes, speaker grilles and filter screens.

高公差控制的精密光化学蚀刻设备，适用于双极板、钛网、扬声器网罩及滤网等。

Main Parameters 主要参数: Model Number: GE-PC600 · Machine size: 820*1280*1286mm · Model: GE-FD650 · Power:12kw/380V · Temperature:RT to 200°C · Exposure Area: 1060*700mm



20. Small Chemical Etching Equipment / 小型化学蚀刻设备

Compact chemical photoengraving equipment for high-quality etching or cut-through of metal characters and graphics on small workpieces.

紧凑型化学光刻蚀设备，可对小型工件实现金属文字、图形的高质量蚀刻或蚀穿。

Main Parameters 主要参数: Model Number: GE-S650 · Working size: W650mm*L (L=length is not limited) · Model: GE-XY650 · Machine dimension :8000*1700*1850mm



21. Laboratory Acid Etching Station (GE-FET500) / 实验室酸蚀工作站 (GE-FET500)

A fume-hood etching station designed for safe and efficient chemical etching processes in laboratory environments.

带通风柜的酸蚀工作站，为实验室环境下安全高效的化学蚀刻工艺而设计。

Main Parameters 主要参数: Model: GE-FET500 · Dimension:L5500*W1000*H1900mm · Weight: 850kg · Working size: W650mm*L (L=length is not limited) · Conveying Speed:0~6m/min adjustable · Model Number: GE-JM650W

3. Plate-Making & Decorative Etching Equipment 制版与装饰蚀刻设备

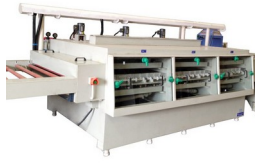


22. Decorative Stainless Steel Sheet Etching Machine / 装饰不锈钢板蚀刻机

Industrial-grade etching machine for full-size stainless steel panels (4'x8' or 5'x10'), specializing in architectural and interior metal finishing.

工业级蚀刻机，可加工整张不锈钢板（4'x8' 或 5'x10'），专注于建筑与室内装饰金属表面处理。

Main Parameters 主要参数: model:GE-ED1500 · Power: 50 kw/380V/50 hz · Temperature: RT to 65°C · Etching system: Double spraying with Oscillate system · Dimension size: 20550*1650*1550mm · Weight: 3850kg



23. Stainless Steel Sheet Etching Machine for Decorative Panels / 装饰金属板不锈钢蚀刻机

High-precision chemical etching of decorative metal panels, supporting full-size stainless steel sheets (4'x8' and 5'x10').

对装饰金属板进行高精度化学蚀刻，支持整张不锈钢板（4'x8'与5'x10'）。

Main Parameters 主要参数: model:GE-ED1500 · Power: 50 kw/380V/50 hz · Temperature: RT to 65°C · Etching system: Double spraying with Oscillate system · Dimension size: 20550*1650*1550mm · Weight: 3850kg



24. Press Plate Etching Machine / 压板蚀刻机

Used for etching press plates and full-size metal sheets in stainless steel, copper, brass, steel and aluminium.

用于压板及整张金属板的蚀刻，适用材料包括不锈钢、铜、黄铜、钢、铝等。

Main Parameters 主要参数: model:GE-PE1 · Power: 11.5kw/380V/50 hz · Temperature: RT to 65°C · Etching system: Double spraying · Tank Volume : 800L · Dimension size: 3550*1650*1550mm



25. Embossed Stainless Steel Press Plate Etching Machine / 压纹不锈钢压板蚀刻机

Etches deep-embossed stainless steel press plates for HPL and furniture; works with stainless steel, copper and aluminium.

用于蚀刻 HPL 及家具用的深压纹不锈钢压板，适用不锈钢、铜、铝等材料。

Main Parameters 主要参数: model:GE-PE1000 · Power: 42.5kw/380V/50 hz · Temperature: RT to 65°C · Etching system: Double spraying with Oscillate system · Tank Volume : 800L · Dimension size: 6550*1650*1550mm



26. S650 Chemical Etching Machine / S650 化学蚀刻机

Versatile chemical etching machine for nameplates, signage and decorative metal plates with stable double-spray performance.

多用途化学蚀刻机，适用于标牌、铭牌及装饰金属板，双面喷淋性能稳定。

Main Parameters 主要参数: Model: GE-SWD9 · Working size: W650mm*L (L= length is not limited) · Conveying Speed:0~6m/min adjustable · Model Number: GE-JM650W · Min / Max board size:120*80mm / 650*650mm · Dimension: 2850*1280*1200mm



27. S650 Etching Machine for Metal Nameplates / S650 金属铭牌蚀刻机

A professional solution designed for metal nameplate manufacturing via controlled chemical etching.

面向金属铭牌制造的专业方案，通过受控化学蚀刻成型。

Main Parameters 主要参数: Model: GE-SWD9 · Working size: W650mm*L (L= length is not limited) · Conveying Speed:0~6m/min adjustable · Model Number: GE-JM650W · Min / Max board size:120*80mm / 650*650mm · Dimension: 2850*1280*1200mm



28. Metal Plaque Etching Machine (GE-SX650) / 金属牌匾蚀刻机 (GE-SX650)

Double-spray precision etching system for stainless steel, brass, copper and aluminium plaques, with ± 0.02 mm tolerance.

双向喷淋精密蚀刻系统，适用于不锈钢、黄铜、铜、铝牌匾，公差 ± 0.02 mm。

Main Parameters 主要参数: Working size: W650mm*L (L= length is not limited) · Conveying Speed:0~6m/min adjustable · Model Number: GE-JM650W · Min / Max board size:120*80mm / 650*650mm · Dimension: 2850*1280*1200mm · Spray type:Double side spray



29. Nameplate & Signage Etching Machine / 铭牌与标识蚀刻机

Double-sided chemical photoengraving system for custom plates, craft graphics and industrial marking, with ± 0.05 mm tolerance.

双面化学光刻蚀系统，适用于定制铭牌、工艺图形及工业标识，公差 ± 0.05 mm。

Main Parameters 主要参数: Model Number: GE-PC600 · Machine size: 820*1280*1286mm · Model: GE-H12 · Power: 12kw/380V · Temperature: RT to 200°C · Working size: 800*1000mm



30. Metal Etching Machine for Precision Parts & Nameplates / 精密零件与铭牌金属蚀刻机

An industrial system that precisely removes material from metal surfaces using chemical processes for parts and nameplates.

工业化系统，通过化学工艺精确去除金属表面材料，用于精密零件与铭牌加工。

Main Parameters 主要参数: Model: GE-JM650 · Conveying speed: 0-6 m/min · Working size: 500*600mm (custom) · Working sizes: 500*600 / 300*400mm · Dimensions: 2550*1650*1550mm



31. Titanium Etching Machine for Chemical Milling (GE-JM650-T) / 钛材化学蚀刻机 (GE-JM650-T)

A high-precision chemical milling system for complex titanium components, widely used in aerospace, medical implants, electronics and decorative metals.

用于复杂钛部件的高精度化学蚀刻系统，广泛应用于航空航天、医疗植入、电子及装饰金属行业。

Main Parameters 主要参数: Model: GE-JM650-T · Power: 45kw/380V/50HZ · Min / Max board size: 120*80mm / 650*650mm (customized) · Develop type: Double Spray with Oscillate system · Working Temperature: 35~55 °C · Conveyor Speed: 0.5 ~ 6m/min



32. Watch Case Etching Machine / 表壳蚀刻机

A photoengraving machine for etching images and lettering onto small round workpieces such as watch cases, lighters and discs.

光刻蚀机，用于在表壳、打火机、圆盘等小型圆形工件表面蚀刻图案与文字。

Main Parameters 主要参数: model: GE-WS600 · Power: 5.5kw/380V/50 hz · Temperature: RT to 65°C · Tank Volume : 400L · Dimension size: 1650*1650*1550mm · Weight: 450kg



33. Glass Acid Etching Machine / 玻璃酸蚀机

Uses a controlled chemical-spray method to etch detailed designs onto glass surfaces through acid reactions.

采用受控化学喷淋方式，通过酸反应在玻璃表面蚀刻精细图案。

Main Parameters 主要参数: Model: GE-JM650-G · Power: 380V/50HZ · Min / Max board size: 120*80mm / 650*650mm (customized) · Develop type: Double Spray with Oscillate system · Working Temperature: 35~55 °C · Conveyor Speed: 0.5 ~ 6m/min



34. Etching Machine for Cutting Dies / 刀模蚀刻机

Rotary-turntable and conveyor-based systems accommodating diverse cutting-die etching requirements across all die types.

转盘式与传送带式系统，满足各类刀模的多样化蚀刻需求。

Main Parameters 主要参数: Model: GE-DB5060 · Power: 7.5kw/380V/50 hz · Temperature: RT to 65°C · Etching system: spraying Oscillate nozzles · Tank Volume : 400L · Dimension size: 1850*1500*1550mm



35. Cutting Dies Etching Equipment / 刀模蚀刻设备

Complete equipment range for cutting-die etching, with rotary-turntable and conveyor configurations for all die types.

刀模蚀刻整套设备，提供转盘式与传送带式配置，适用于各类刀模。

Main Parameters 主要参数: Model: GE-JM650 · Power: 15kw/380V/50 hz · Temperature: RT to 65°C · Etching system: spraying Oscillate nozzles · Tank Volume : 800L · Dimension size: 4850*1500*1550mm



36. Flexible Cutting Dies Etching Machine / 柔性刀模蚀刻机

Photoengraving equipment with chemical pretreatment for high-carbon steel die plates, accelerating CNC engraving and reducing production cost.

配化学前处理的光刻蚀设备，用于高碳钢刀模板，可加速 CNC 雕刻并降低生产成本。

Main Parameters 主要参数: Model Number: GE-PC600 · Machine size: 820*1280*1286mm · Model: GE-H12 · Power: 12kw/380V · Temperature: RT to 200°C · Working size: 500mm*600mm(customized)



37. Hot Foil Stamping Dies Etching Machine / 烫金模蚀刻机

Etching and exposure equipment for hot-foil stamping dies — magnesium, zinc and copper block etching.

用于烫金模的蚀刻与曝光设备，可加工镁版、锌版及铜版烫印模块。

Main Parameters 主要参数: Model: GE-TB3040 · Power: 3.5kw/380V/50 hz · Working size: 300*400mm / 500*600mm (can order) · Tank volume: 40L / 60L · Temperature: RT to 65°C · Conveying Speed: 0~6m/min adjustable

4. Exposure & Developing Equipment 曝光与显影设备



38. PCB / UV LED Exposure Machine / PCB / UV LED 曝光机

UV LED exposure machines and units with advanced CCD alignment for precise solder-mask exposure and double-sided PCB processing.

采用先进 CCD 对位的 UV LED 曝光机与曝光单元，实现精密阻焊曝光与双面 PCB 加工。



39. 4-CCD Alignment LED UV Exposure Machine / 4-CCD 对位 LED UV 曝光机

High-precision solder-mask exposure with a 4-CCD alignment system and energy-efficient LED light source for advanced PCB manufacturing.

配备 4-CCD 对位系统与节能 LED 光源的高精度阻焊曝光机，适用于先进 PCB 制造。

Main Parameters 主要参数: Model: GE-4CCD-LED6070 · Power Supply: 380V/50HZ/15KVA · Expose Size: 21.5"*24.5" · resolution: 2.0 mil/2.0 mil · board thickness: 0.1~3.2mm · Machine Dimension: L*W*H=2760*1640*2040mm



40. 8-CCD Alignment LED UV Exposure Machine / 8-CCD 对位 LED UV 曝光机

High-precision solder-mask exposure with an 8-CCD alignment system and energy-efficient LED technology for high-layer-count PCBs.

配备 8-CCD 对位系统与节能 LED 技术的高精度阻焊曝光机，适用于高层数 PCB。

Main Parameters 主要参数: Model:GE-8CCD-LED6070 · Power Supply:380V/50HZ/15KVA · Expose Size:21.5"*24.5" · board thickness:0.1~3.5mm · Machine Dimension:L*W*H=2760*1640*2040mm · Machine Weight:1600KGS

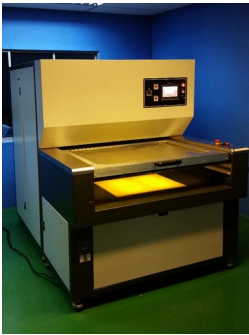


41. UV LED Dry-Film PCB Exposure Machine / UV LED 干膜 PCB 曝光机

Fine-line dry-film exposure machine that maintains an 18–25°C working temperature for optimal, stable exposure over long runs.

细线路干膜曝光机，可将工作温度维持在 18–25°C，实现长时间稳定的最佳曝光效果。

Main Parameters 主要参数: Model:GE-LED700 · resolution : ≥50μm · Average power : 2 KW/H · Table Temperature: C±2°C(C Environment Temperature) · Power supply : Three phase five-wire/380V AC/50 z/5KVA · Dimension : 2500(L)x1570(W)x1800(H)mm



42. Double-Side UV Exposure Machine / 双面 UV 曝光机

A double-sided high-precision vacuum exposure machine for printed-circuit-board exposure work.

双面高精度真空曝光机，适用于印刷电路板的曝光作业。

Main Parameters 主要参数: Model:GE-B8565 · Power Supply:7kw/380V/50HZ/60HZ · Expose Size:650*850mm · resolution : ≥75μm · Table Temperature: C±2°C(C Environment Temperature) · Machine Dimension:L*W*H=2100*1200*1900mm



43. Single-Side UV Exposure Machine / 单面 UV 曝光机

A single-side vacuum exposure machine for PCB and metal parts that maintains 18–25°C for stable long-run exposure.

单面真空曝光机，适用于 PCB 与金属件，可维持 18–25°C 实现稳定长时曝光。

Main Parameters 主要参数: Model:GE-B2 · Power Supply:2.5kw/220V/50HZ · Expose Size:800*1000mm · Machine Dimension:1100*1100*1200mm · weight : 200Kg · Exposure Area: 1060×700mm



44. Scanning Double-Side UV LED Exposure Machine / 扫描式双面 UV LED 曝光机

Scanning-mode exposure delivers more uniform light energy without repeated lifting of the machine — convenient, fast and safe.

扫描曝光模式光能更均匀，无需反复升降机器，操作便捷、快速、安全。

Main Parameters 主要参数: Model:GE-LED5000 · resolution : ≥50μm · Average power : 2 KW/H · Table Temperature: C±2°C(C Environment Temperature) · Power supply : Three phase five-wire/380V AC/50 z/5KVA · Dimension : 6500(L)x1570(W)x1800(H)mm



45. UV LED Exposure Unit for Screen Printing / 丝网制版 UV LED 曝光机

A professional UV LED exposure unit for screen and stencil making, with an integrated drying cabinet.

专业 UV LED 制版曝光机，用于丝网与网版制作，集成烘干柜。

Main Parameters 主要参数: Model: GE-UV700 · Exposure Area: 1060×700mm · Resolution: 50μm · Circuit Production Capacity: 5-6 panels per minute · Solder Mask Production Capacity: 2-3 panels per minute · Dimensions: 2700×1630×1750mm

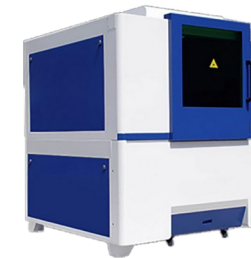


46. Large-Format Screen Printing Exposure Machine / 大幅面丝印曝光机

Vacuum exposure machine with a 1500×3000 mm exposure area for making screen-printing plates or exposing directly onto metal sheets; custom sizes available.

真空曝光机，曝光面积 1500×3000 mm，可制作丝印网版或直接在金属板上曝光，尺寸可定制。

Main Parameters 主要参数: Model: GE-B48 · Power Supply: 18kw/380V/50HZ · Expose Size: 1500*3000mm · resolution : ≥75μm · Table Temperature: C±2°C(C Environment Temperature) · Machine Dimension: L*W*H=2100*3200*1500mm



47. Laser Plotter (Film Setter) / 激光绘图机 (出片机)

High-precision laser typesetter for circuit-board film output, used for PCB, flexible boards, LCD panels and silk-screen printing.

高精度激光出片机，用于线路板菲林输出，适用于 PCB、软板、液晶面板及丝网印刷。



48. PCB Developing Machine (Sodium Carbonate, Double-Side Spray) / PCB 显影机 (碳酸钠双面喷淋)

Double-side spray developer using sodium-carbonate chemistry for automatic PCB photoresist-film imaging.

采用碳酸钠工艺的双面喷淋显影机，实现 PCB 光阻膜的自动显影成像。

Main Parameters 主要参数: Model: GE-XY650 · Working size: W650mm*L (L= length is not limited) · Machine dimension :8000*1700*1850mm · Model Number: GE-SRD650 · Conveying speed: 0 ~ 6 m/min



49. S650 Double-Side Spray Developing Machine / S650 双面喷淋显影机

High-precision dual-sided photoresist developing system with ±0.02 mm tolerance for PCBs and metal plates.

高精度双面光阻显影系统，公差 ±0.02 mm，适用于 PCB 与金属板。

Main Parameters 主要参数: Model: GE-XY650 · Working size: W650mm*L (L= length is not limited) · Machine dimension :8000*1700*1850mm · Model Number: GE-SRD650 · Conveying speed: 0 ~ 6 m/min



50. PCB Developing-Washing-Drying Line / PCB 显影—水洗—烘干线

An automated photoresist processing line integrating developing, washing and drying in a single system.

自动化光阻处理线，将显影、水洗、烘干集成于一体。

Main Parameters 主要参数: Model: GE-XY650 · Working size: W650mm*L (L= length is not limited) · Machine dimension :8000*1700*1850mm · Model Number: GE-SRD650 · Conveying speed: 0 ~ 6 m/min



51. Compact PCB Developing Machine / 小型 PCB 显影机

A space-saving automated spray-imaging solution for prototype and small-batch PCB production, with ± 0.02 mm precision.

节省空间的自动喷淋成像方案，适用于打样与小批量 PCB 生产，精度 ± 0.02 mm。

Main Parameters 主要参数: Model: GE-XY650 · Working size: W650mm*L (L= length is not limited) · Machine dimension :8000*1700*1850mm · Model Number: GE-SRD650 · Conveying speed: 0 ~ 6 m/min



52. Professional PCB Developing Equipment / 专业 PCB 显影设备

High-precision developing machines for PCB manufacturing featuring advanced spray technology.

用于 PCB 制造的高精度显影设备，采用先进喷淋技术。



53. Solder Mask Developing Machine / 阻焊显影机

Automatic spray-imaging developer for PCB solder-mask photoresist film.

用于 PCB 阻焊光阻膜的自动喷淋成像显影机。

Main Parameters 主要参数: Model: GE-XY650 · Working size: W650mm*L (L= length is not limited) · Machine dimension :8000*1700*1850mm · Model Number: GE-SRD650 · Conveying speed: 0 ~ 6 m/min

5. Pretreatment, Cleaning & Stripping Equipment 前处理 · 清洗 · 去膜设备



54. PCB Brushing Machine / PCB 磨刷机

Cleans, deburrs and removes oxidation from PCB surfaces — an essential step for improving surface quality and yield.

用于 PCB 表面清洗、去毛刺与去氧化，是提升表面质量与良率的重要工序。

Main Parameters 主要参数: Model Number: GE-FBR650-6 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



55. GE-B650 Brushing & Grinding Machine / GE-B650 磨刷研磨机

Professional-grade equipment for surface preparation, cleaning and finishing in PCB manufacturing.

专业级设备，用于 PCB 制造中的表面前处理、清洗与精整。

Main Parameters 主要参数: Model Number: GE-FBR650 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



56. PCB Grinding & Brushing Machine / PCB 研磨磨刷机

Automated multi-stage surface treatment for drilling-defect removal and contaminant elimination.

自动化多段表面处理，用于去除钻孔毛刺缺陷与表面污染物。

Main Parameters 主要参数: Model Number: GE-FBR650 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



57. Small PCB Brushing Machine / 小型 PCB 磨刷机

A compact benchtop solution for efficient oxide removal and surface preparation.
紧凑型桌面设备，高效去除氧化层并完成表面前处理。

Main Parameters 主要参数: Model Number: GE-FBR650 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



58. GE-B100 Small PCB Brushing & Washing Machine / GE-B100 小型 PCB 刷洗机

Compact brushing-and-washing machine for surface preparation, cleaning and finishing of small PCBs.

小型刷洗一体机，用于小尺寸 PCB 的表面前处理、清洗与精整。

Main Parameters 主要参数: Model Number: GE-FBR650 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



59. GE-FBR650 Automatic Final PCB Brush Cleaning Machine / GE-FBR650 全自动 PCB 终检刷洗机

Automatic final brush-cleaning machine for surface preparation and finishing in PCB manufacturing.

全自动终段刷清洗洗机，用于 PCB 制造的表面前处理与精整。

Main Parameters 主要参数: Model Number: GE-FBR650 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



60. Small PCB Scrubbing & Finishing Machine / 小型 PCB 擦洗精整机

A compact benchtop solution for efficient oxide removal and surface preparation.

紧凑型桌面设备，高效去除氧化层并完成表面前处理。

Main Parameters 主要参数: Model Number: GE-FBR650 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



61. PCB Deburring Machine / PCB 去毛刺机

Professional-grade equipment for deburring, surface preparation and finishing in PCB manufacturing.

专业级去毛刺、表面前处理与精整设备，用于 PCB 制造。

Main Parameters 主要参数: Model Number: GE-FBR650 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



62. Double-Side PCB Deburring Machine / 双面 PCB 去毛刺机

Automated dual-surface treatment for precision drilling-defect correction and hole cleaning.

自动化双面处理，用于精密修正钻孔缺陷并清理孔壁。

Main Parameters 主要参数: Model Number: GE-FBR650 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



63. PCB Cleaning, Deburring & Brushing Machine / PCB 清洗去毛刺磨刷机

Professional-grade equipment for surface preparation, cleaning and finishing in PCB manufacturing.

专业级设备，用于 PCB 制造的表面前处理、清洗与精整。

Main Parameters 主要参数: Model Number: GE-FBR650 · Min / Max board size:120*80mm / 650*650mm · Transmission speed: 2-12m/min (adjustable) · Machine size: 1520x1030x1210mm



64. PCB Brush Pre-Treatment Line / PCB 磨刷前处理线

A pre-treatment line for washing and cleaning the surface of PCB and FPC boards.
用于 PCB/FPC 板面清洗的前处理生产线。



65. PCB Cleaning & Drying Line / PCB 清洗烘干线

A double-sided cleaning machine for material-surface cleaning in PCB production.
双面清洗设备，用于 PCB 生产中的材料表面清洗。



66. Double-Side Spray Stripping Machine / 双面喷淋去膜机

Efficiently removes photoresist film from metal plates and PCBs, completing stripping and rinsing in a single automated cycle.

高效去除金属板与 PCB 上的光阻膜，单次自动循环即完成去膜与水洗。

Main Parameters 主要参数: Model Number: GE-S650T · Power: 4.5KW/380V · Working size: 650*L mm(L= length is not limited) · Stripping type: double side sprayer · weight: 480kg



67. Small Film Stripping Machine for PCB / 小型 PCB 去膜机

A compact high-temperature cleaning system with precision tolerance control for photoresist removal.

紧凑型高温清洗系统，具备精密公差控制，用于光阻膜去除。

Main Parameters 主要参数: Model Number: GE-S400S · Working size: W400mm



68. Industrial Photoresist Stripping Line / 工业光阻去膜线

A complete automated system for aqueous resist removal of dry-film and solder-mask in PCB manufacturing.

完整的自动化系统，用于 PCB 制造中干膜与阻焊的水溶性去膜。

Main Parameters 主要参数: Model Number: GE-S400S · Working size: W400mm



69. Photoresist Stripping, Cleaning & Drying Machine / 光阻去膜清洗烘干机

A complete automated system for dry-film, liquid-resist and solder-mask removal with integrated cleaning and drying.

完整自动化系统，用于干膜、液态光阻及阻焊的去除，集去膜、清洗、烘干于一体。

Main Parameters 主要参数: Model Number: GE-S400S · Working size: W400mm



70. Automated Solder Mask Stripping Machine / 全自动阻焊去膜机

Solder-mask stripping machine with integrated rinsing and drying for PCBs and metal plates via automatic chemical spray.

集成水洗与烘干的阻焊去膜机，通过自动化学喷淋处理 PCB 与金属板。

Main Parameters 主要参数: Model Number: GE-S400S · Working size: W400mm



71. Professional PCB Stripping Equipment / 专业 PCB 去膜设备

High-efficiency stripping machines for solder-mask and photoresist removal in PCB manufacturing.

高效去膜设备，用于 PCB 制造中阻焊与光阻的去除。



72. PCB Chemical Etching & Stripping Line / PCB 化学蚀刻去膜线

Etching and film-stripping integrated into a single automatic production line.

将蚀刻与去膜集成于一条全自动生产线。

Main Parameters 主要参数: Model:GE-SWD9 · Power:380V/50HZ/48kw · Min / Max board size:120*80mm / 500*500mm · Etching system:Double Spray with Oscillate system · Working Temperature:35~55 °C · Conveyor Speed:0.5 ~ 6m/min



73. Cylinder Head Gasket Cleaning Machine / 汽缸盖垫片清洗机

A precision stainless-steel cleaning system for ultra-thin automotive gaskets.

精密不锈钢清洗系统，专用于超薄汽车垫片的清洗。

Main Parameters 主要参数: Adjustable Speed: Conveyor speed 0.5-4 m/min for process optimization · Model: GE-GBC650 · Conveyor Speed: 0.5 – 4 m/min (adjustable) · Machine Power: 23KW / 380V / 50HZ · Machine Size: 6600×1400×1250mm (L×W×H) · Alkaline Degreasing Chamber: Powerful oil and grease removal

6. Plating & Surface Finishing Equipment 电镀与表面处理设备



74. Plated Through Hole (PTH) Line / 沉铜 (PTH) 生产线

PCB through-hole copper-plating line with customizable processing chambers and automated chemical management for reliable hole metallization.

PCB 孔金属化生产线，处理腔可定制并配自动药水管理，确保可靠的孔铜沉积。

Main Parameters 主要参数: Model: GE-MEP650 · Plating tank volume :25L · Power:AC220V /50Hz · production capacity :1500-2000m² · Volume of plating tank:L1150*W350*H900mm



75. Compact PTH Machine for Laboratory / School / 实验室教学用小型沉铜机

A compact desktop PTH machine for double-sided through-hole copper deposition on double- and multi-layer circuit boards.

紧凑桌面型沉铜机，用于双面及多层电路板的双面通孔沉铜。

Main Parameters 主要参数: Model: GE-PTH650 · Plating tank volume :25L · Power:AC220V /50Hz · production capacity :1500-2000m² · Volume of plating tank:L1150*W350*H900mm



76. Manual Electroless Copper & Electroplating System / 手动化学沉铜与电镀系统

Small-scale electroless-copper and electroplating machines for PCB prototyping.
小型化学沉铜与电镀设备，适用于 PCB 打样。

Main Parameters 主要参数: Model: GE-MEP650 · Plating tank volume :25L · Power:AC220V /50Hz · production capacity :1500-2000m² · Volume of plating tank:L1150*W350*H900mm



77. Compact Copper Plating Machine for Laboratory / School / 实验室教学用小型电镀铜机

A small copper-plating machine for thickening copper after electroless copper plating, with automated, hands-free operation.
小型电镀铜机，用于化学沉铜后的加厚镀铜，自动免手动操作。

Main Parameters 主要参数: Model: GE-PTH650 · Plating tank volume :25L · Power:AC220V /50Hz · production capacity :1500-2000m² · Volume of plating tank:L1150*W350*H900mm



78. Manual Nickel & Copper Plating Line / 手动镍/铜电镀线

A manual nickel-and-copper plating production line for the PCB and FPC industry; size configurable to processing needs.
面向 PCB 与 FPC 行业的手动镍铜电镀生产线，尺寸可按工艺需求定制。

Main Parameters 主要参数: Model: GE-MEP650 · Plating tank volume :25L · Power:AC220V /50Hz · production capacity :1500-2000m² · Volume of plating tank:L1150*W350*H900mm



79. ENIG Plating Machine / 化学镍金 (ENIG) 电镀机

Electroless nickel immersion gold (ENIG) plating machine for the PCB and FPC industry; size configurable to processing needs.
化学镍浸金 (ENIG) 电镀机，适用于 PCB 与 FPC 行业，尺寸可按工艺需求定制。

Main Parameters 主要参数: Model: GE-MEP650 · Plating tank volume :25L · Power:AC220V /50Hz · production capacity :1500-2000m² · Volume of plating tank:L1150*W350*H900mm



80. Compact Automatic Tin Plating Machine for Laboratory / School / 实验室教学用小型自动镀锡机

A desktop automatic tin-plating machine offering precise, hands-free operation for consistent lab and educational use.
桌面型自动镀锡机，提供精确、免手动的操作，适合实验室与教学的稳定使用。

Main Parameters 主要参数: Model: GE-MEP650 · Plating tank volume :25L · Power:AC220V /50Hz · production capacity :1500-2000m² · Volume of plating tank:L1150*W350*H900mm



81. Tin Stripping Machine / 退锡机

Removes tin or tin-lead protective coatings after PCB etching, with advanced spray nozzles for fast, uniform, clean stripping.
用于 PCB 蚀刻后退除锡或锡铅保护层，配先进喷嘴系统，退镀快速、均匀、洁净。

Main Parameters 主要参数: Machine Size: L6500 × W1600 × H1980 mm · Power Supply: 380V / 50Hz / 60Hz · Board Size: Min 80×80 mm / Max 650×460 mm · Speed Control: Adjustable conveying system · Pressure System: Adjustable spray pressure · Temperature Control: Up to 100°C



82. HASL Pre-Treatment Line / HASL 喷锡前处理线

A complete surface-preparation system with ultrasonic cleaning, 1–6 m/min adjustable speed and 610×610 mm board capacity.

完整的表面前处理系统，配超声波清洗，速度 1–6 m/min 可调，最大板幅 610×610 mm。

Main Parameters 主要参数: Model: GE-PRE650 · Conveying Speed: 0–6m/min adjustable · Machine power: 25KW/380V/50HZ · Max board Size: 610×610×6mm · Working temperature: 230–280°C (adjust) · Produce Capacity: 250–300 pieces /hour



83. Hot Air Solder Leveling (HASL) Machine / 热风整平（喷锡）机

A precision HASL system with automatic control, 610×610 mm board capacity and up to 300 panels/hour throughput.

精密热风整平系统，配自动控制，最大板幅 610×610 mm，产能可达 300 片/小时。

Main Parameters 主要参数: Model: GE-PRE650 · Conveying Speed: 0–6m/min adjustable · Machine power: 25KW/380V/50HZ · Max board Size: 610×610×6mm · Working temperature: 230–280°C (adjust) · Produce Capacity: 250–300 pieces /hour



84. HASL Post-Treatment Line / HASL 喷锡后处理线

A residue-removal and surface-preparation system with 1–6 m/min speed control and 610×610 mm board capacity.

残留清除与表面处理系统，速度 1–6 m/min 可调，最大板幅 610×610 mm。

Main Parameters 主要参数: Model: GE-PRE650 · Conveying Speed: 0–6m/min adjustable · Machine power: 25KW/380V/50HZ · Max board Size: 610×610×6mm · Working temperature: 230–280°C (adjust) · Produce Capacity: 250–300 pieces /hour



85. PCB OSP Surface Finish Machine / PCB OSP 表面处理机

An advanced automated coating solution for applying organic solderability preservatives (OSP).

先进的自动涂覆设备，用于施加有机可焊性保护膜（OSP）。



86. PCB Plating Equipment Solutions / PCB 电镀设备方案

Professional electroless-copper, copper-electroplating and tin-plating machines for PCB manufacturing.

面向 PCB 制造的专业化学沉铜、电镀铜与镀锡设备。



87. Laboratory Electro-Plating Fume Hood / 实验室电镀通风柜

Electro-plating fume hoods engineered to international safety standards for chemical, biological and pharmaceutical laboratories.

按国际安全标准设计的电镀通风柜，适用于化学、生物及制药实验室。

Main Parameters 主要参数: Model: GE-MEP650 · Plating tank volume :25L · Power:AC220V /50Hz · production capacity :1500-2000m² · Volume of plating tank:L1150*W350*H900mm



88. Laboratory Electro-Polishing Fume Hood Station / 实验室电解抛光通风柜

Fume-hood stations designed, manufactured and installed to international standards in size, function and technology for laboratory use.

按国际标准在尺寸、功能与工艺上设计、制造并安装的通风柜工作站，供实验室使用。



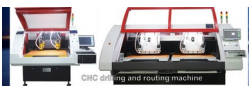
89. Nickel & Gold Plating Line / 镍金电镀线

A nickel and gold plating production line for the PCB and FPC industry; tank sizes and station counts are configurable to your processing needs.

面向 PCB 与 FPC 行业的镍/金电镀生产线，槽体尺寸与工位数量可按工艺需求定制。

Main Parameters 主要参数: Model:GE-CT300 · Plating tank volume :25L · Power:AC220V /50Hz · production capacity :1500-2000m² · Volume of plating tank:L1150*W350*H900mm

7. Drilling, Routing & Cutting Equipment 钻孔·锣边·裁切设备



90. Single-Spindle Benchtop CNC PCB Drilling Machine / 单轴桌面 CNC 钻孔机

The GE-Z200 benchtop CNC drilling machine delivers precision PCB hole drilling (0.4–3.175 mm) with power-failure recovery, for prototypes and small batches.

GE-Z200 桌面 CNC 钻孔机，可实现 0.4–3.175 mm 精密钻孔，具断电恢复功能，适用于打样与小批量。

Main Parameters 主要参数: Model:GE-Z200 · Max working size:300×200mm · Spindle power:65w · Power:AC220V 50Hz · Weight:60kg · Consumed power:150w



91. Twin-Spindle PCB CNC Drilling & Routing Machine / 双轴 PCB CNC 钻铣机

Industrial dual-spindle solution for PCB fabrication: up to 60,000 RPM, ±0.01 mm accuracy and automatic tool change.

工业级双轴 PCB 加工方案：转速达 60,000 RPM，精度 ±0.01 mm，自动换刀。

Main Parameters 主要参数: Model Number: GE-5565G*2 · Spindle Quantity : 2 Spindle · Actual Stroke : 550mm×650mm · Position accuracy : 0.02 mm/300 mm · Spindle speed : 60000r/min · Power : AC220V/50HZ/5KW



92. Three-Spindle PCB CNC Drilling & Routing Machine / 三轴 PCB CNC 钻铣机

Multi-spindle CNC solution for PCB fabrication: up to 60,000 RPM, ± 0.01 mm accuracy and automatic tool change.

多轴 CNC 加工方案：转速达 60,000 RPM，精度 ± 0.01 mm，自动换刀。

Main Parameters 主要参数: Model Number: GE-5565G*2 · Spindle Quantity : 2 Spindle · Actual Stroke : 550mm \times 650mm · Position accuracy : 0.02 mm/300 mm · Spindle speed : 60000r/min · Power : AC220V/50HZ/5KW



93. Four-Spindle PCB CNC Drilling & Routing Machine / 四轴 PCB CNC 钻铣机

High-throughput multi-spindle CNC solution for PCB fabrication: up to 60,000 RPM, ± 0.01 mm accuracy and automatic tool change.

高产能多轴 CNC 加工方案：转速达 60,000 RPM，精度 ± 0.01 mm，自动换刀。

Main Parameters 主要参数: Model Number: GE-5565G*2 · Spindle Quantity : 2 Spindle · Actual Stroke : 550mm \times 650mm · Position accuracy : 0.02 mm/300 mm · Spindle speed : 60000r/min · Power : AC220V/50HZ/5KW



94. Six-Spindle PCB CNC Drilling & Routing Machine / 六轴 PCB CNC 钻铣机

High-volume multi-spindle CNC solution for PCB fabrication: up to 60,000 RPM, ± 0.01 mm accuracy and automatic tool change.

大批量多轴 CNC 加工方案：转速达 60,000 RPM，精度 ± 0.01 mm，自动换刀。

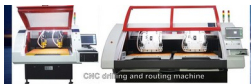
Main Parameters 主要参数: Model Number: GE-5565G*2 · Spindle Quantity : 2 Spindle · Actual Stroke : 550mm \times 650mm · Position accuracy : 0.02 mm/300 mm · Spindle speed : 60000r/min · Power : AC220V/50HZ/5KW



95. High-Precision PCB Drilling & Routing Solutions / 高精度 PCB 钻铣解决方案

Advanced CNC drilling machines with multi-spindle configurations and precision engineering for professional PCB manufacturing.

先进 CNC 钻孔设备，提供多轴配置与精密工程，适用于专业 PCB 制造。



96. PCB Target Hole Drilling Machine / PCB 靶孔钻孔机

Automated vision-guided drilling for solder-mask alignment and layer-registration (target) holes. 自动视觉引导钻孔，用于阻焊对位与层间定位（靶）孔加工。

Main Parameters 主要参数: Model: GE-HS-D3 · Spindle speed: 30000rpm-40000rpm · punching speed : 40-60 holes/min

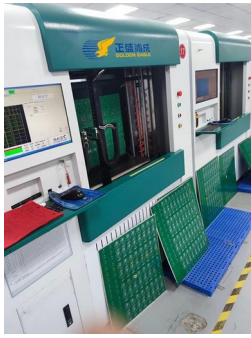


97. Automatic Vacuum Loader & Unloader System / 自动真空上下料系统

Automatic vacuum-suction loading and unloading machines for high-efficiency PCB manufacturing and metalworking.

自动真空吸附上下料设备，提升 PCB 制造与金属加工的效率。

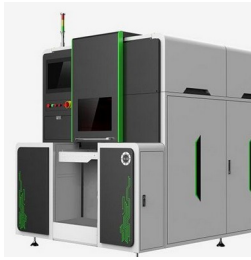
Main Parameters 主要参数: High-Speed Operation: 1-12 pieces/minute production rate · Energy Efficient: Only 0.35 KW power consumption · Low Power Operation: 220VAC/150W input



98. Precision High-Speed Flying Probe Tester / 高速飞针测试机

4/6/8-probe configurations, 1,800–2,500 points/min test speed and $\pm 15 \mu\text{m}$ positioning accuracy for PCB testing.

4/6/8 探针配置，测试速度 1,800–2,500 点/分钟，定位精度 $\pm 15 \mu\text{m}$ ，用于 PCB 测试。



99. Automatic High-Speed V-Groove Cutting Machine / 全自动高速 V-CUT 分板机

For PCB V-cut processing of materials such as fibreglass, aluminium, ceramic board and metal-clad laminate.

用于 PCB V-CUT 加工，适用玻纤板、铝板、陶瓷板及金属基板等材料。

Main Parameters 主要参数: Model Number: GE-VC480 · Motor power cutter axis:4KW · Speed: 800cm / min · Machine dimension:1600x 694 x1000 mm · Processing speed:0-40m/min (aluminum plate0-15m/min)



100. PCB V-Cut / V-Grooving Machine / PCB V-CUT 走刀分板机

V-grooving and V-scoring equipment for efficient PCB depaneling of fibreglass, aluminium and ceramic boards.

V 槽/V 划切设备，用于玻纤、铝、陶瓷板的高效 PCB 分板。

Main Parameters 主要参数: Model Number: GE-VC480 · Motor power cutter axis:4KW · Speed: 800cm / min · Machine dimension:1600x 694 x1000 mm · Processing speed:0-40m/min (aluminum plate0-15m/min)



101. Manual PCB V-Cut Machine (GE-VC480) / 手动 PCB V-CUT 分板机 (GE-VC480)

Professional manual V-cut machine for aluminium PCBs, fibreglass, ceramic boards and metal-clad laminate.

专业手动 V-CUT 分板机，适用于铝基板、玻纤板、陶瓷板及金属基板。

Main Parameters 主要参数: Model Number: GE-VC480 · Motor power cutter axis:4KW · Speed: 800cm / min · Machine dimension:1600x 694 x1000 mm · Processing speed:0-40m/min (aluminum plate0-15m/min)



102. Precision PCB Board Cutting Machine / 精密 PCB 裁板机

Cuts aluminium PCB, FR4, cardboard, fibreglass and bakelite raw material to matching size.

用于将铝基板、FR4、纸板、玻纤、电木等原材料裁切至所需尺寸。

Main Parameters 主要参数: Model :GE-1400GJ · Machine size: L2000*W1310*H1300 (length * width * height) · Machine weight: 1.5 tons · Power requirements: Three-phase power supply requires ground wire · power: 4kw · Tool speed: 45 rpm



103. Manual PCB Board Cutter / 手动 PCB 裁板机

A manual board cutter for circuit boards and sheets of aluminium, iron, copper or plastic, with a ruler for accurate cutting.

手动裁板机，可裁切线路板及铝、铁、铜、塑料等板材，台面带刻度尺确保裁切精准。

Main Parameters 主要参数: Model :GE-1400GJ · Cut board size Width: 120mm-1.4m Length: 200mm-1.6m · Machine size: L2000*W1310*H1300 · Maximum power of laser:500W / 1000W / 1500W / 2000w / 3000W · Maximum positioning speed : 60m/min · weight:20kg



104. Industrial Electric Shearing Machine / 工业电动剪板机

A steel-welded PCB and sheet-metal cutting machine — simple structure, easy operation and low energy consumption.

钢板焊接结构的 PCB 与金属板剪切机，结构简单、操作便捷、能耗低。

Main Parameters 主要参数: Model :GE-1400GJ · Cut board size Width: 120mm-1.4m Length: 200mm-1.6m · Machine size: L2000*W1310*H1300 · Maximum power of laser:500W / 1000W / 1500W / 2000w / 3000W · Maximum positioning speed : 60m/min · weight:20kg



105. Manual Metal Shearing Machine / 手动金属剪板机

A heavy, stable manual shearing machine with front and back gauges and a high-carbon chrome-steel blade in a fully cast frame.

重型稳定的手动剪板机，配前后挡料定位与高碳铬钢刀片，整体铸造机身不易变形。

Main Parameters 主要参数: Model :GE-1400GJ · Cut board size Width: 120mm-1.4m Length: 200mm-1.6m · Machine size: L2000*W1310*H1300 · Maximum power of laser:500W / 1000W / 1500W / 2000w / 3000W · Maximum positioning speed : 60m/min · weight:20kg

8. Screen Printing & Coating Equipment 丝印与涂布设备



106. Silk Screen Printing Machine for PCB & Solder Mask / PCB 阻焊丝网印刷机

A complete range of semi-automatic, pneumatic and manual screen-printing systems for solder mask, legend printing and multi-material applications.

涵盖半自动、气动及手动的全系列丝印设备，适用于阻焊、字符印刷及多种材料应用。

Main Parameters 主要参数: Model:GE-VP60120 · Max printing speed: 1000 (PCS/H) · Air pressure: 4.0 ~ 6.0 kfg/cm² · Rated voltage/Power :380V/50HZ /2KW · Pull net cylinder stroke: 60*100mm · Working air pressure: 6KG



107. Oblique-Arm Flatbed Screen Printing Machine / 斜臂式平面丝网印刷机

Industrial-grade screen printing for PCB solder-mask application, legend printing and multi-material surface finishing.

工业级丝印设备，用于 PCB 阻焊涂布、字符印刷及多材料表面处理。

Main Parameters 主要参数: Model:GE-VP60120 · Max printing speed: 1000 (PCS/H) · Air pressure: 4.0 ~ 6.0 kfg/cm² · Rated voltage/Power :380V/50HZ /2KW · Pull net cylinder stroke: 60*100mm · Working air pressure: 6KG



108. Industrial Large-Format Silk Screen Printing System / 工业大幅面丝网印刷系统

Large-format (1500×2500 mm) screen printing for PCB solder-mask, legend printing and multi-material finishing.

大幅面 (1500×2500 mm) 丝印系统，用于 PCB 阻焊、字符印刷及多材料表面处理。

Main Parameters 主要参数: Model:GE-VP60120 · Max printing speed: 1000 (PCS/H) · Air pressure: 4.0 ~ 6.0 kfg/cm² · Rated voltage/Power :380V/50HZ /2KW · Pull net cylinder stroke: 60*100mm · Working air pressure: 6KG



109. Pneumatic Screen Stretching Machine / 气动绷网机

Industrial-grade screen-stretching equipment supporting screen-making for solder-mask and legend printing applications.

工业级绷网设备，为阻焊与字符印刷的制网工序提供支持。

Main Parameters 主要参数: Model: GE-VP60120 · Max printing speed: 1000 (PCS/H) · Air pressure: 4.0 ~ 6.0 kgf/cm² · Rated voltage/Power :380V/50HZ /2KW · Pull net cylinder stroke: 60*100mm · Working air pressure: 6KG



110. Double-Sided PCB Solder Mask Coating Machine / 双面 PCB 阻焊涂布机

A roller-type coating machine delivering precision liquid photoimageable (LPI) solder-mask application for single- and double-sided PCBs.

滚涂式涂布机，为单/双面 PCB 提供精密的液态感光阻焊（LPI）涂覆。

Main Parameters 主要参数: Model Number: GE-L2 · Lamination film temperature:50°C-150°C ±2°C Adjustable · Machine size: 820*1280*1286mm · Coating speed range: 0-8 meters



111. Photosensitive Ink Coating Machine / 感光油墨涂布机

A roller-type coating machine for precise photoresist application in metal etching and electroforming processes.

滚涂式涂布机，为金属蚀刻与电铸工艺提供精密的感光油墨涂覆。

Main Parameters 主要参数: Model Number: GE-L2 · Lamination film temperature:50°C-150°C ±2°C Adjustable · Machine size: 820*1280*1286mm · Coating speed range: 0-8 meters



112. Dry Film Photoresist Laminator / 干膜压膜机

An industrial-grade thermal lamination system for flawless dry-film application in circuit-board production.

工业级热压膜系统，为线路板生产提供平整无瑕的干膜贴合。

Main Parameters 主要参数: Model Number: GE-L2 · Lamination film temperature:50°C-150°C ±2°C Adjustable · Machine size: 820*1280*1286mm · Coating speed range: 0-8 meters



113. PCB Rosin Coating Machine / PCB 松香涂布机

For hot-melt coating of rosin or masking agents; size configurable to processing needs.

用于松香或助焊保护剂的热熔涂覆，尺寸可按工艺需求定制。



114. Photoresist & Solder Mask Coating Solutions / 光阻与阻焊涂布方案

Precision coating and laminating equipment for enhanced PCB manufacturing.

精密涂布与压膜设备，用于提升 PCB 制造工艺。

9. Laser Marking & Cutting Equipment 激光打标与切割设备



115. CO2 Laser Marking Machine / CO2 激光打标机

Produces permanent marks on a wide range of materials by evaporating surface material, creating fine patterns, trademarks, dates and logos.

通过蒸发表面材料在多种材质上形成永久标记，可打出精细图案、商标、日期及 LOGO。



116. Fiber Laser Marking Machine / 光纤激光打标机

Creates permanent marks on a variety of materials through surface evaporation or physical change for high-contrast, durable marking.

通过表面蒸发或物理变化在多种材料上形成永久标记，标识对比度高、耐久性好。



117. UV Laser Marking Machine / UV 激光打标机

Uses a 355 nm laser with third-order frequency doubling; its smaller spot reduces mechanical deformation for ultra-fine marking.

采用 355nm 激光与三阶腔倍频技术，光斑更小，可降低工件机械形变，实现超精细打标。



118. Green Laser Marking Machine / 绿光激光打标机

A 532 nm green-laser marker with a smaller focal spot, concentrated energy, high electro-optical efficiency and superior beam quality.

532nm 绿光打标机，聚焦光斑更小、能量更集中、光电转换效率高、光束质量优。



119. Pump Laser Marking Machine / 半导体泵浦激光打标机

Uses an imported semiconductor module, high-speed galvanometer and Q-switch for fast, high-precision laser scanning.

采用进口半导体模块、高速振镜与 Q 开关，实现快速、高精度的激光扫描打标。



120. Fiber Laser Cutting System for PCB / PCB 光纤激光切割系统

A 500–3000 W industrial laser for multi-material PCB drilling and routing, with $\pm 0.02 \mu\text{m}$ accuracy and up to 60 m/min cutting speed.

500–3000W 工业激光器，用于多材料 PCB 钻孔与切割，精度 $\pm 0.02 \mu\text{m}$ ，切割速度达 60 m/min。

Main Parameters 主要参数: Model :GE-1400GJ · Cut board size Width: 120mm-1.4m Length: 200mm-1.6m · Machine size: L2000*W1310*H1300 · Maximum power of laser:500W / 1000W / 1500W / 2000w / 3000W · Maximum positioning speed : 60m/min · weight:20kg

10. Drying & Curing Equipment 烘干与固化设备



121. Conveyorized Hot Air Drying Machine / 传送式热风烘干机

For drying photoresist and printing ink; compact, low-volume structure that is easy to operate and move.

用于烘干光阻与印刷油墨，整机结构紧凑、体积小、易操作易移动。

Main Parameters 主要参数: Model: GE-FD650 · Power:12kw/380V · Temperature:RT to 200°C



122. Hot Air Circulation Drying Oven / 热风循环烘箱

A hot-air circulation oven providing uniform, controlled drying for PCB manufacturing and industrial applications.

热风循环烘箱，为 PCB 制造与工业应用提供均匀、可控的烘干。

Main Parameters 主要参数: Model: GE-FD650 · Power:12kw/380V · Temperature:RT to 200°C



123. Industrial Baking Oven / 工业烤箱

An industrial baking oven for curing and drying coatings, inks and resists in board and metal processing.

工业烤箱，用于板材与金属加工中涂层、油墨及光阻的固化与烘干。

Main Parameters 主要参数: Model: GE-FD650 · Power:12kw/380V · Temperature:RT to 200°C



124. Far-Infrared Drying Machine / 远红外烘干机

Far-infrared drying tunnel delivering rapid, even heat transfer for PCB and industrial drying processes.

远红外烘干隧道，为 PCB 与工业烘干工序提供快速、均匀的热传导。

Main Parameters 主要参数: Model: GE-FD650 · Power:12kw/380V · Temperature:RT to 200°C



125. IR Continuous Belt Dryer / 红外连续传送带烘干机

An infrared continuous belt dryer for inline, high-throughput drying of boards and coated parts.
红外连续传送带烘干机，用于板材与涂覆件的连续、高产能烘干。

Main Parameters 主要参数: Model:GE-FD650 · Power:12kw/380V · Temperature:RT to 200°C



126. UV Curing Machine / UV 固化机

A UV curing machine for fast curing of UV inks, solder mask and coatings in PCB and metal processing.

UV 固化机，用于 PCB 与金属加工中 UV 油墨、阻焊及涂层的快速固化。

Main Parameters 主要参数: Model: GE-FD650 · Power:12kw/380V · Temperature:RT to 200°C



127. PCB UV Curing Machine / PCB UV 固化机

A conveyORIZED UV curing system for solder mask and UV inks in printed-circuit-board production.
传送式 UV 固化系统，用于印刷电路板生产中阻焊与 UV 油墨的固化。

Main Parameters 主要参数: Model: GE-FD650 · Power:12kw/380V · Temperature:RT to 200°C



128. Industrial Baking & Drying Solutions / 工业烘烤与烘干方案

Specialized baking and drying solutions configurable for PCB manufacturing and industrial applications.

专业烘烤与烘干方案，可按 PCB 制造与工业应用需求配置。

11. Auxiliary Systems & Accessories 辅助系统与配件



129. Intelligent Etchant Regeneration System / 智能蚀刻液再生系统

For regeneration of circuit-board and metal acid-etching solution; uses ORP and conductivity meters with a digital, interactive control interface and multi-parameter settings.

用于线路板与金属酸性蚀刻液的再生，采用 ORP 与电导率仪，配数显交互控制界面及多参数设定。

Main Parameters 主要参数: Model: GE-SWD9 · Working size: W650mm*L (L= length is not limited) · Conveying Speed:0-6m/min adjustable · Model Number: GE-JM650W · Min / Max board size:120*80mm / 650*650mm · Dimension: 2850*1280*1200mm