

灯泵浦YAG激光打标机

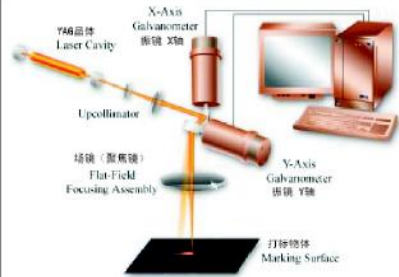
YAG Laser marking system



原理 Principles

YAG 激光器是红外光频段波长为1064nm 的固体激光器，采用氪灯作为能量源(激励源)，ND: YAG作为产生激光的介质，发出特定波长可以促使工作物质生产能级跃迁释放出激光，将激光能量放大后就形成对材料加工的激光束。通过电脑控制振镜改变激光束光路实现自动打标。

YAG laser machine is a solid laser machine with infrared light whose wavelength of frequency band is 1064nm. It uses krypton lamp as energy source (driving source). As a medium for producing laser, Nd:YAG can send out special wavelength to let effective substance's level of energy jump higher so that it can let off laser. After the energy of laser is strengthened it will form a laser beam to process the material. The path of the laser beam will be changed through the resonance mirror controlled by computer so as to accomplish automatic marking.



产品特点 Product performance indices

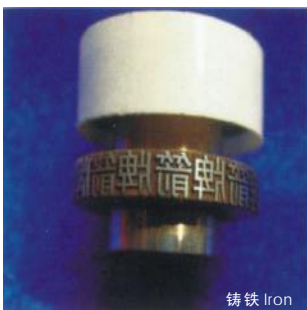
采用高速扫描振镜，与控制系统和软件完善合理的配合，速度快、精度高，机器质量稳定可靠，部件使用寿命长，产品折旧成本低。With high speed scanning resonance mirror to get high precision and high speed.

软件采用WINDOWS 界面，可兼容CORELDRAW、AUTOCAD、PHOTOSHOP 等多种软件输出的文件。支持PLT、PCX、DXF、BMP等文件，直接使用SHX、TTF 字体，支持自动编码、序列号、批号、日期、条形码及二维码的打标，软件具有图形反打功能。The software controlling system has the interface of WINDOWS and comprises files output by software such as CORELDRAW, AUTOCAD, PHOTOSHOP, etc. It can support graphic file formats such as PLT, PCX, DXF, BMP etc. and use fonts such as SHX, TTF directly. It also can mark automatic code, sequence number, batch number, date, bar code and two-dimensional code. The software can mark the figures on the opposite side.



产品应用 Product application

金属、合金及氧化物，ABS、环氧树脂、油墨等，广泛应用于电子元器件、电工电器、珠宝首饰、眼镜、五金、汽车配件、通讯产品、塑料按键、集成电路(IC) 等行业。It can be used in the industries of metal, alloy and oxide, ABS, epoxy resin, printing ink, etc. Also it's widely used in the industries such as electron components, electric appliance, jewels, glasses, hardware, car components, communication products, plastic keystroke and IC.



AHL-YAG-50W AHL-YAG-90W

高品质
HIGH QUALITY

高效率
HIGH EFFICIENCY

低维护
LOW MAINTENANCE

产品优势

完善合理的整机设计，控制系统和打标软件的结合使产品部件寿命大大增强，长时间运行故障率低，产品性能稳定可靠。

激光腔：采用高性能激光腔光电转换效率更高，激光腔体寿命长

Q开关：采用进口配置，激光释放品质好，性能更稳定。

控制电脑：采用工业控制电脑，能保证工业设备在恶劣环境里长期稳定的工作，不容易死机。

控制软件：功能强大，具有图形对齐、红光预览功能。可以标记各种条码以及图形码，并具有反打功能，充分满足客户要求。

优良的工作台面，能与飞行标记系统完全配套，无需更改配置。

强大的研发能力能提供数百种自动打标和送料方案，充分满足客户的要求。



Product advantage

The ideal combine of design, control system and marking software make the life of fittings stronger. The rate of failure is lower after long-time working and the capability of product is steadily.

Laser cavity: gold-plating cavity designed and manufactured by Germany technique. The surface of gold-plating layer will not fall off easily .It can be used more than five years.

Q-switch: Its equipped with imported parts and will seldom break down. Controlling computer: We use industrial controlling computer. It is superior to family or commercial computer so it can ensure the equipment to work long-time and steadily in the industrial condition and will not easily crash.

Controlling software: It has strong capability. It can even the figures, laminate set up parameters and preview the place of infrared light. It can calculate the figures precisely and mark all kinds of bar code and graphic code and mark on the opposite side.

技术参数 Technology parameters

| | | AHL-YAG-50W | AHL-YAG-90W |
|---|-----------------------|------------------------|-------------------------|
| 最大激光功率 | Max. laser power | 60W | 90W |
| 激光波长 | Laser wave-length | 1064nm | 1064nm |
| 光束质量 | Beam quality | < 8M ² | < 8M ² |
| 重复频率 | Repetition frequency | ≤50KHz | ≤50KHz |
| 标刻范围 | Standard marking area | 100mm×100mm | 100mm×100mm |
| 选配范围 | Marking area option | 50mmX50mm 150mm X150mm | 200mm×200mm 300mm×300mm |
| 雕刻深度 | Marking depth | ≤1.2mm | ≤1.8mm |
| 雕刻线速 | Linear speed | ≤7000mm/s | ≤7000mm/s |
| 最小线宽 | Min. line width | 0.015mm | 0.015mm |
| 最小字符 | Min. character size | 0.2mm | 0.2mm |
| 重复精度 | Repetition accuracy | ±0.002mm | ±0.002mm |
| 整机耗电功率 | Power consumed | ≤5KW | ≤6KW |
| 电力需求 | Electrical source | 220V±10%/50Hz/30A | 220V±10%/50Hz/30A |
| 外型尺寸(长×宽×高) 以实际尺寸为准 outline size standards by the real size | | | |
| 光路系统 | Optical system | 1700mm×500mm×1200mm | 1720mm×500mm×1230mm |
| 冷却系统 | Cooling system | 620mm×400mm×720mm | 内置 |
| 控制系统 | Control system | 720mm×620mm×830mm | 880mm×630mm×1140mm |
| 备注：由光路、冷水箱、控制箱、显示器、工作台、外置空调组成。可选配旋转工作台及自动化配套系统， | | | |