

# CO<sub>2</sub>激光切割机、雕刻机

## CO<sub>2</sub> Laser cutting system

### 原理 Principles

CO<sub>2</sub>激光器是红外光频段波长为 10.64 μm 的气体激光器，采用CO<sub>2</sub>气体充入放电管作为产生激光的介质，当在电极上加高电压，放电管中产生辉光放电，就可使气体分子释放出激光，将激光能量放大后就形成对材料加工的激光束。激光束使加工件气化达到切割。

CO<sub>2</sub> laser marking machine is a gas laser machine whose frequency band wave length of infrared light is 10.64 μm. CO<sub>2</sub> gas is filled in the discharge tube as the medium to produce laser. When high voltage is added to the electrode, it will produce glow discharge in the discharge tube and then the gas molecule will discharge laser. After the energy of laser is strengthened, It will form to laser beam to process the materials.

### 产品应用 Product application

主要用于木材加工、包装印刷、工艺品、广告装饰、建筑模型、仿真模型、皮革服装、电子工业、模切板制造以及钣金加工等多种行业领域。可切割雕刻木材、纸张、橡胶、皮革、亚克力、塑料、陶瓷、布匹纤维复合材料等，也可雕刻牛角、双色板、漆铜板、氧化铝、玻璃及石头等材料。

CO<sub>2</sub> cutters can be used in wood processing, package printing, art & crafts, AD decoration, construction modeling, leather clothing, electronic industry, sheet metal cutting, and various other areas of professional material processing. Metals, ceramics, polymers, composite materials, paper, glass, corundum, acryl and natural materials such as wood, stone, rubber, leather can all be cut by using CO<sub>2</sub> lasers.



# AHL-CO<sub>2</sub>-C80 (1200mm、900mm)

高品质  
HIGH QUALITY

高效率  
HIGH EFFICIENCY

低维护  
LOW MAINTENANCE



## 产品优势 Product advantage

**快速曲线切割功能：**任意曲线均能快速连续切割，激光头的运动过程如同顶级赛车划出的优美弧线。

Fast curvilinear cutting function: It can cut via any curve fast and consecutively. The laser heads moving in beautiful arc just evoke your imagination of top grade racing car.

**全面支持CAD、CORELDRAW、GERBER、田岛等设计软件，人机界面友好，贴近行业现场需求。**

Software support to CAD, CORELDRAW, GERBER, TAJIMA, etc. the Well-installed user interface can meet all requirements of production sites.

**多文档功能：**该系列设备可存储多达128个作业文件，在完全脱离计算机的情况下，用户可以在雕刻机上进行选择文件，轻松实现128种不同产品的批量生产。

Multi-document function: This machine can memorize as much as 128 working documents, so the customers can easily complete the lot production of 128 different kinds of products without connect to the computer.

**全光藕隔离系统配合高速差分输入输出电路设计，长距离传输时信号不发生畸变，抗干扰能力强，系统实现了12路工作状态输出，16路状态输入，可与用户生产现场轻松对接。**

Under interference killing features, the Optical coupling isolation system cooperated with high speed differential output and input, it will not produce aberrant signal even in long distance transferring. Our system has achieved 12-way work state output and 16-way input, which can be connected to the production site easily



## 技术参数 Technology parameters

		AHL-CO <sub>2</sub> -C80 (1200mm)	AHL-CO <sub>2</sub> -C80 (900mm)
加工面积:	Cutting scope	1200mm X 800mm	900mm X 600mm
最大激光功率:	Max. laser power	80w	80w
雕刻速度:	Cutting speed	0-20000mm/min	0-20000mm/min
切割厚度:	Cutting depth	4mm (8mm /sec) (PMMA)	4mm (8mm /sec) (PMMA)
最小成形文字:	Minimum character	汉字chinese character2×2mm	字母/letter1×1mm
分辨率:	Resolution ratio	0.01mm	0.01mm
定位精度:	Repeat accuracy	<0.01mm	<0.01mm
工作温度:	Operating temperature	0° C-45° C	0° C-45° C
工作湿度:	Operating humidity	5-95%(无凝水/Free of condensed water)	
支持图文格式:	Graphic format supported	BMP、GIF、JPGE、PCX、TGA、TIFF、PLT、CDR、DMG、DXF	
总功率:	Power consumed	<1.25KW	<1.25KW
电源:	Electrical source	AC220V±10%,50HZ	AC220V±10%,50HZ