Lightwriter C02

Laser Marking Systems

Thinklaser bring to the worlds industrial market place a comprehensive range of “Plug & Play” laser marking and engraving products, systems and solutions.

CO2 laser marking and engraving machines are common place in today’s industrial markets. With zero consumables and relatively low maintenance requirements they are perfect tools whether used for on line coding requirements or stand-alone part marking. CO2 is generally used for marking and coding organic based materials such as wood, leather and glass but can also be used on a wide range of plastic materials. Metal coated processes such as anodising or painted can also be processed at high speed. Base metal substrates can be marked using higher powered units or by using interface coatings such as Thermark and Cermark.

Lightwriter CO2

The chassis is fabricated from aluminium extrusion with panelling throughout. A two tone grey colour scheme is used. The unit can be facilitated in 3 main ways. In its most simplistic format the unit is supplied as a Class 1 bench mounted unit. As a Class 1 unit it can also be provided as a stand alone configuration utilising a free standing pedestal. The unit can also be integrated onto-into production line facilities. In its free standing mode the unit has many more available options and operating features such as larger process area, automated focal adjustment etc. Each system is supplied with jacking feet to enable it to be positioned and levelled at its manufacturing location. The chassis will contain all necessary equipment, electronics and service requirements to enable a quick integration into your manufacturing facility.

The on board PC operates from a Windows platform and includes the graphical interface that allows you to create “job files” suitable to your marking requirements. The operational graphical interface makes editing menus intuitive and easy to use. Familiar pull down menus allow you to edit a wide variety of functions, or select logo’s, barcodes and 2D matrix codes. Generate single or array layouts in front of you on the system monitor.

The unit operates from a single phase electrical supply and has no water cooling requirements. Every Class 1 marking solution supplied by Thinklaser is equipped with extraction ports, viewing windows and internal lighting for process observation.

System specifications

- High oerformance25 to 50 watt CO2 sources available
- Sealed Tube CO2 air cooled unit
- Wavelength: 10.6 um
- Power output: 30 Watts
- Mode structure: Single mode
- High performance galvanometer beam positioning.
- Standard Process area: 75 x 75 mm (Other options available for free standing version)
- DC Switching Power Supply
- System controller inc. RF Q –switch driver.

System Computer.

Minimum Intel Core 2 Duo processor based multiprocessor control system featuring:

- Windows Operating platform software
- System graphical operating software.
- On-line Help and Glossary Feature
- Mouse and Keyboard control
- 1GB RAM
- DVD-RW Combo (CD-RW)
- PCI bus
- 250Gb SATA
- DC switching power supply.
- Keyboard, mouse and LCD monitor