

Lightwriter



Laser Marking Systems

Thinklaser bring to the world's industrial marketplace a comprehensive range of "plug & process" laser marking and engraving products, systems and solutions.

One of the most compact, yet versatile, laser marking products available today is the Lightwriter which comprises of a fully integrated marking head, Class 1 worksite safety enclosure, PC with software, designed into a chassis that is available in two distinctive forms, Stand alone and Table top.

The chassis is fabricated from Aluminium extrusion with panelling throughout. A two tone Grey colour scheme is used. The unit will be free standing with jacking feet to enable it to be easily positioned and levelled at it's manufacturing location. The chassis will contain all necessary equipment, electronics and service requirements.

The system can be configured with a selection of laser sources in order to optimise the material application and production needs. A true "Plug & Play" marking solution the Lightwriter facilitates a mark area of 200 x 200mm in the freestanding version and 100 x 100mm in the tabletop version. The unit operates from a single-phase electrical supply & has no water cooling requirements.



Lightwriter

Every class 1 marking solution supplied by thinklaser is equipped with extraction ports, viewing windows & internal lighting for process observation.

In the free standing version the system is supplied with a Z motion facility, which is motor driven with operation via a push button switch, or directly from the operating software. With a total of 300 mm of Z motion available the facility allows the processing of fairly large parts. In the tabletop model the focal shift due to varying sizes can be taken out through tooling.

The onboard PC operates from a Windows platform and includes the graphical interface that allows you to create "jobfiles" 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, select text with true type or single stroke fonts, enter or select logos, barcodes and 2D matrix codes. Generate single or array layouts in front of you on the system monitor.

If handling or automation is required the Lightwriter can be modified very cost effectively to create a platform that has the flexibility to allow for most handling forms. See examples.

Marking Head System Computer controller

- High performance galvanometer beam positions
- Resolution: 1.8 μm
- Positional accuracy: 0.1%
- Multi-Element Flat Field Focusing Optic
- System Computer Controller
- Lockable Front Access Panel



SOFTWARE

Additional Hardware Options

- Full function keyboard and mouse
- 15" SVGA monitor
- Pedestal or stand frames
- Rotary C indexers
- Jigs and fixtures
- LCD monitor screens
- Foot switch for operational control
- Fume extraction units

RF CO2 25 Watt sealed tube laser

- High Performance 25 Watt, CO2 Laser
- Wavelength: 10.6 μm
- Sealed tubes CO2 Air-cooled
- Mode structure: single mode
- Variable beam expander 2-8 X
- Electrical supply: Single phase
- DC Switching Power Supply
- System Controller inc. RF Q-Switch Driver

12 - 20 Watt Fibre

- High Performance 12 or 20 Watt Nd:YAG fibre laser
- Wavelength: 1064nm
- Mode Structure: Single Mode
- Selectable Pulse Waveforms and 1 - 500 kHz Pulse Rate
- Fast Rise Time
- 2- 8 x Variable Beam Expander
- Air Cooled Units
- Electrical Supply single phase
- Pulsed or CW operation

30 - 40 Watt Fibre

- High Performance 30 or 40 Watt Nd:YAG fibre laser
- Wavelength: 1064nm
- Mode Structure: Single Mode
- Selectable Pulse Waveforms and 1 - 500 kHz Pulse Rate
- Fast Rise Time
- 2- 8 x Variable Beam Expander
- Air Cooled Units
- Electrical Supply single phase
- Pulsed or CW operation