

CO10 Laser Marker

Extremely High Speed for “Mark-on-the-Fly” and Stationary Applications

The Telesis CO10 Laser is optimized to provide extremely high-speed operation, through the use of a reliable galvo scanner using self-diagnostic servo drivers. The reliable RF-excited CO2 tube assures a long life cycle and virtually maintenance-free operation. Due to its compact size and modular construction, the CO10 Laser Marker can fit where it's needed on the plant floor.



The CO10 laser is perfect for “Mark-on-the-fly” linear and circular movements

- Standard 100 – 240VAC, 50 – 60Hz operation
- Easy-to-use Merlin® II Visual Design software
- Support of linear and 2-D bar codes including the QR code
- DoD compliant Unique Identification (UID) marking
- Multi-language support

Flexibility and ease-of-use: CO10 laser options

- Tool post with manual hand crank for Z-axis adjustment
- Pushbutton station (start/abort)
- I/O options:
 - TTL via PCI-DIO24 card (kit #53920)
 - Opto-isolated via Merlin® DCIO module (kit #53928)
 - TMC090 controller (for auxiliary axes; additional I/O)
- Programmable X-, Y-, or Z-axis (TMC090 required)
- Rotary drive fixture (TMC090 required)
- Vacuum system
- Workstation/work area enclosures
- Quadrature shaft encoder
- TTL level part position detector

SPECIFICATIONS

CO10 Marker

Laser Type	10 watt, air cooled RF-excited CO2 laser at 10,6µm wavelength (9.3µm option is available)
Marking Head Size (H x W x L)	730 x 110 x 207mm (28.7 x 4.3 x 8.2")
Controller Size (H x W x L)	570 x 419 x 176mm (22.4 x 16.5 x 6.9")
Marking Head Weight	13.9 kg (30.5 lbs.)
Controller Weight	14.3 kg (31.5 lbs.)
Input	100 – 240 VAC, 50 – 60Hz
Operating Temperature	16 – 35°C

Lens	Marking Field	Focal Clearance
75mm	50 x 50mm (1.97 x 1.97")	54mm (2.13")
100mm	70 x 70mm (2.76 x 2.76")	81mm (3.19")
150mm	100 x 100mm (3.94 x 3.94")	131mm (5.16")
200mm	140 x 140mm (5.51 x 5.51")	183mm (7.20")

Other lens sizes available

Marking Speed

- Up to 152 m/minute (500 ft./minute) line speed for "Mark-on-the-fly"*
- 400 characters/second (multiline marking is supported)*

*Character marking speeds and production line speeds depend on a material, character size and the desired marking quality.
Please see the table below for some examples.

System Software

The powerful Telesis Merlin® II LS Laser Marking software is a Windows® based software package that comes standard with the laser marking system. It is a graphical user interface that makes marking pattern design quick and easy. The WYSIWYG (what-you-see-is-what-you-get) interface provides a to-scale image of the pattern as it is created. Just "click and drag" for immediate adjustment to field size, location, or orientation.

The Merlin II® LS includes tools to create and edit text (at any angle), arc text, rectangles, circles, ellipses, and lines. Multiple fields may be grouped and saved as a block to form a logo. Existing DXF files can also be imported for marking. Non-printable fields can be created to clearly display a graphical representation of the part being marked.

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