# Fiber Laser - C-Laser F

Small and compact. High quality marking. Low maintenance. New C-Laser F (10 - 20 - 30 - 50 watt) are fiber laser pulsed at solid state: the most compact, versatile and low maintenance available on the market. Perfect for direct marking on metals, plastics and other hard material within the aerospace, automotive, electronics industry, medical devices and tools. Extremely compact for an easy integration. The smallest marking head on the market. The option high resolution head ensures a wider marking field and a faster speed in case of marking in motion. No PC required in case of stand-alone applications means reducing space remarkably. Versatility for a wide range of applications. Laser can be configured as desired, with the possibility to choose between standard and high resolution head.
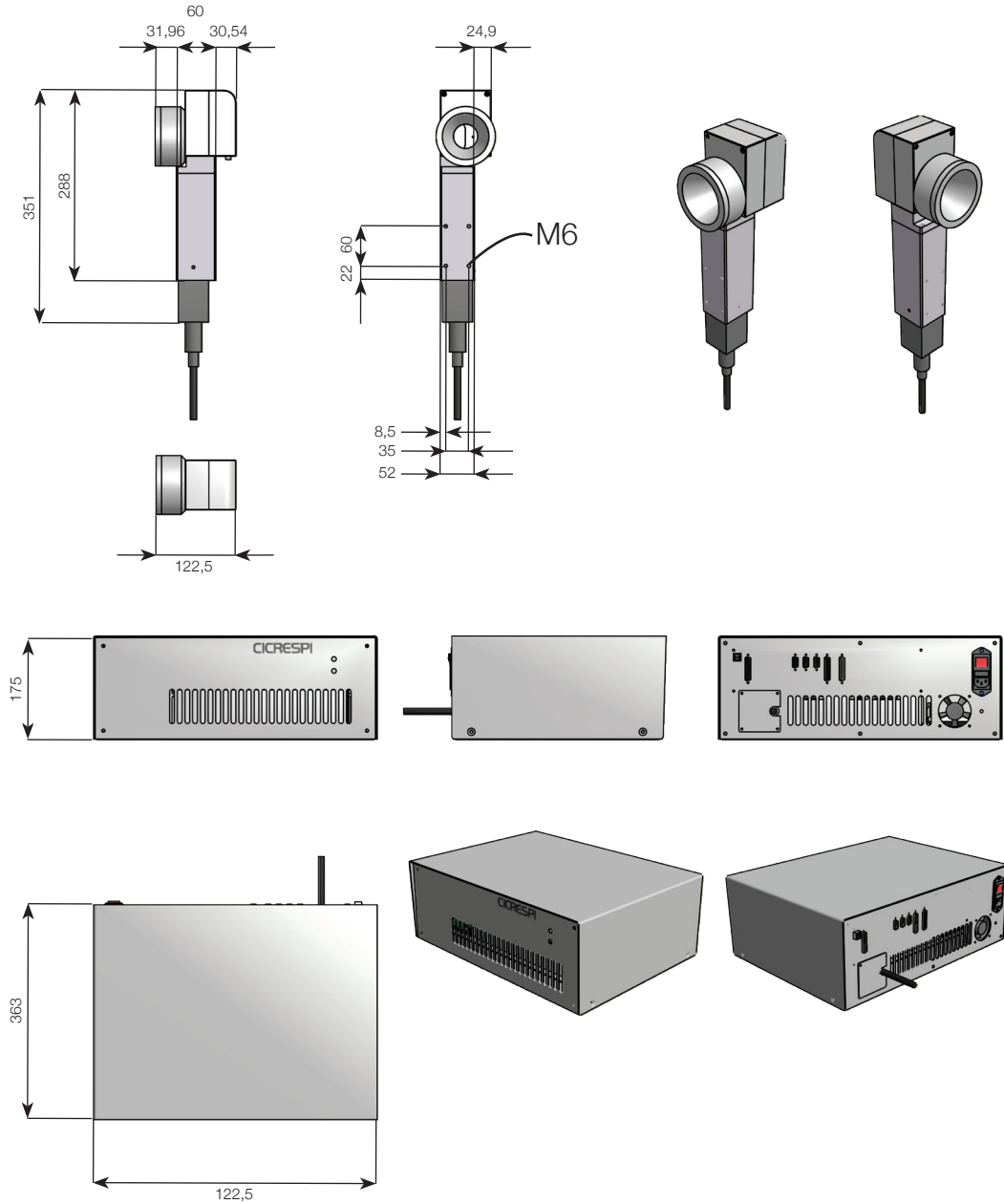
High performance software, creation of messages with automatically updated data (es.: date, time, shifts), symbols, logos, fonts in any language and possibility to import graphic and CAD files. Huge reliability: source of fiber laser avoids all resonator maintenance of the traditional YAG lasers. High efficiency of the fiber laser source (less than 300VA), cooled with internal air, avoids maintenance for water cooling systems or with external fridge.

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WE SHAPE THE FUTURE

## Marking field

| Focal | 63 | 100 | 160 | 254 | 330 | 440 |
|---|---|---|---|---|---|---|
| Focal distance | 50 | 98 | 176 | 296 | 320 | 430 |
| Printing area | 35 x 35 | 50 x 50 | 120 x 120 | 180 x 180 | 200 x 200 | 260 x 260 |

## LASER DIMENSION



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## Marking formats

Standard Fonts (Windows® TrueType®/TTF; PostScript®/ PFA, PFB; Open Type®/ OTF).

- Single fonts, for high speed application or OCR.
- Codes readable by optical screen: ID-Matrix (ECC100, 140, 200: 10x10 a 144x144, 8x18 a 16x48; ECC flat); barcodes (BC25/25i/39/39E/128; EAN13/128; UPC_A; RSS14 truncated/ -stacked [CCA/B]/ - stacked omnidirectional/ -limited [CCA/B]/ expanded).
- Graphics, logos ,symbols, etc. (DXF, JPG, AI, etc.).
- Circular text marking in any direction; rotation, reflection, extension, compression of marking field.
- Serial and sequential numbers.
- Automatic and real time functions date, time, hour, shift.
- On line coding of variable data (weight, content, etc.).

## LASER

### Laser source

Ytterbium (Yb) pulsed fiber laser:

Power 10-20-30-50 Watt wavelength: 1,060 – 1,070 nm (1.06 – 1.07 μm).

Life expectation 60.000 hours.

Beam deflection: guided beam with galvanometric, digital high speed scanners.

## USER INTERFACE

Remote graphic control through USB 2.0. Easy and user friendly system configuration and programs selection. Alarm state warning with problem resolution messages.

## SOFTWARE

### C-Marking

Graphic software with user interface Windows® 2000/XP for easy and fast setting of marking jobs directly from PC system configuration. Texts, dates, graphics, parameters setting. Easy access to standard CAD and graphic programs thanks to its import functions for the most widespread formats: WYSIWYG, different protection passwords at different levels, ActiveX software.

### Communications

RS232. External signals for encoders and photocells, 4 inputs / 5 outputs for signals of machine start and stop, external alarm signal, extension of signals I/O; personalized solutions.

## INTEGRATIONS

Direct integration inside production lines thanks to the laser interface via script: Integration via RS232; easy lines integration thanks to its support.

### Electricity

100 – 240 V (autorange), 250 VA, 1 PH, 50/60 Hz.

Protection level: IP54, air cooling.

Environmental specifications: 5 -40° C (40 -105° F)/ 10 -90 %, non condensed.

Weight: Control unit 21 Kg. Standard head 3 Kg.