

## FASTJET

### LASER MARKING SYSTEM

# F8100 series

F8100 series CO<sub>2</sub> laser marking system help customers achieve high-quality and high-speed printing in various production situations. The printing content is flexible, not restricted by fonts, coding or graphics. It is an ideal solution for high-speed and complex coding request in food, beverage, cosmetic, pharmaceutical and extrusion industrials.

#### Non-stop

- ✧ Optimized total output power for a laser source life of up to 40,000 hours
- ✧ Air-cooled laser source requires no additional maintenance
- ✧ Totally sealed maintenance-free optical system, no adjustment required to ensure the stability of the entire system, thereby minimizing unplanned downtime

#### high efficiency

- ✧ High-speed digital galvanometer system to ensure high speed and accuracy
- ✧ Scientific and accurate vector planning logic, reducing the time consumed for a single marking
- ✧ Ultra-high-speed



#### Easy to operate

- ✧ Flexible integrated solution with multiple standard beam transmission options
- ✧ Highly integrated modular design ensures simple and convenient installation and maintenance

#### No mistake

- ✧ In-house developed touch screen high-speed laser printer control system,
- ✧ Human-machine interaction, reducing mis-operations and ensuring correct marking
- ✧ Multiple high-resolution print field lens options provide accurate and perfect identification

# F8100 series

## Laser Marking System

### Marking speed

Up to 2,000 characters/second <sup>(1)</sup>

### Line speed

Up to 200/min<sup>(1)</sup>

### Marking windows

Approx. 70x70mm<sup>2</sup> to 300x300mm<sup>2</sup>

### Wave lengths

10.6um, 10.2um and 9.3um

### Marking format

Standard industrial fonts (Type1 Windows® TrueType®) and single line font

Machine readable codes (OCR, 2D matrix, etc)

Bar codes: code128A, code128B, code128C, code39, code93,

QR-Code, Data Matrix, Aztec-Code, Han Xin-Code

Graphics, Logos, symbols, etc

Linear, circular, angular, reverse, rotate sequential and batch numbering

Automatic date, layer and time code, real time clock

Dot model will be faster for marking

### Laser tube

Sealed CO<sub>2</sub> laser

### Beam deflection

Steer beam with digital high-speed galvanometer scanners

### Focus options

Focal lengths (mm): 70 110 145 175 200 220 250 300;

Flying marking is not recommended for above 200

### User interface

Personalized touch control screen, humanized operation, easy to learn

<sup>(1)</sup> Maximum marking and line speed is application dependent

### Communication

UDP, TCP/IP and RS232

Inputs for encoder and product detector triggers

4 inputs/4 outputs for start/stop signals, machine/operator interlocks, alarm outputs; in addition to the safety circuits

Customer-specific solutions available

### Integration

Flexible beam delivery options (beam extension unit/beam turning unit)

### Electrical requirement

110-240 VAC (To be noted when ordering), ~50/60 Hz, 1 PH, 0.70 KW

### Cooling system

Air cooled

### Environment

Temperature 5-40° C (41-104° F)

Humidity 10%-90%, no condensing

### Sealing and safety standards

Cabinet: IP54 standard

Marking Unit (Optical core components): IP54 standard

### Weight

Standard unit: approx. 40 kg

### Specific model

F 8 1 XX

1: 10W

2: 30W

3: 60W

1: CO2 10.6um

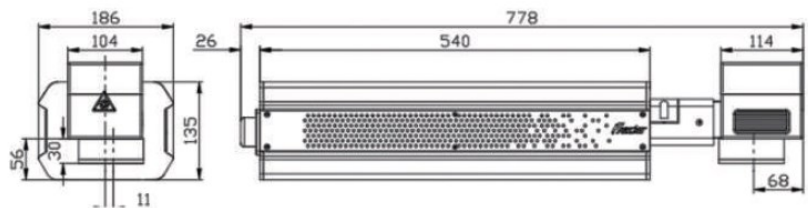
2: CO2 10.2um

3: CO2 9.3um

### Cabinet dimension



### Marking unit dimension



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