FASTJET

Laser Marking System
F8100U Series Laser

F8100U series UV laser printer is developed with 355nm UV laser, which is especially suitable for ultra-fine marking, special material marking, such as food, tobacco, medicine, electronic components, chemicals, building materials, painted metal surface, glass and other applications due to its extremely small focusing spot and minimal processing heat and impact on the deformation of the material. F8100U series is the first choice for customers with high standard of marking quality.

Easy To Handle

✧ WYSIWYG installation guidance
✧ Powerful system self-test assure maxium uptime
✧ Rich IO interface for intelligent production line control
   Automatic speed measurement for easy productivity assessment
✧ Automatic classification and stacking of user file types, one-click backup/ recovery

Easy To Operate

✧ For the full range of UV lasers, BTU is used as standard
✧ Highly integrated modular design ensures simple and easy installation and maintenance
✧ Intuitive touch screen interface, easier to edit information, simple to learn, support a variety of communication methods

High Efficiency

✧ High-speed digital galvanometer system to ensure high speed and accuracy
✧ Scientific and accurate vector planning logic to reduce marking period
✧ Ultra-high-speed makes up to 150,000 marking per hour
✧ Ultraviolet wave length laser beam makes high speed flying marking on HDPE/LDPE packaging possible.

High Quality

✧ "Cold processing" with small focal spot and heat effect ensures the minimization of damage to packaging
✧ Fine and non-erasable marking to help on realization of traceability and anti-counterfeiting in the whole product life cycle
✧ Achievable high-contrast with great visual readability on white HDPE/LDPE packaging

F8100U Series
Laser Marking System

Marking speed
- Up to 2,000 characters/second[1]

Line speed
- Up to 200/min[1]

Focus options
- Standard F160 (100x100)
- Optional F100 (70x70), F210 (140x140), F254 (170x170), F330 (220x220)

Wave lengths
- 355nm

Marking format
- Standard industrial fonts (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

Beam deflection
- Steer beam with digital high-speed galvanometer scanners

User interface
- Personalized touch control screen, humanized operation, easy to learn

[1]: *Maximum marking and line speed is application dependent*

Laser tube
- Solid-state UV laser

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

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

Electrical requirement
- 110-240 VAC，~50/60 Hz，1 PH，0.70 kW

Cooling system
- Water-cooled

Environment
- Temperature 5-40°C (41-104°F)
- Humidity 10%-90%, no condensing

Weight
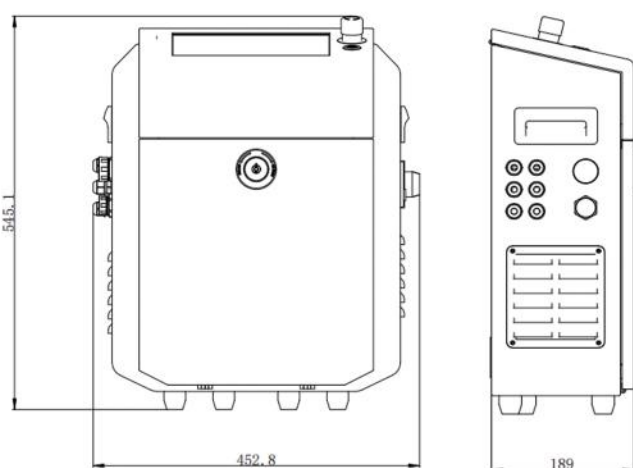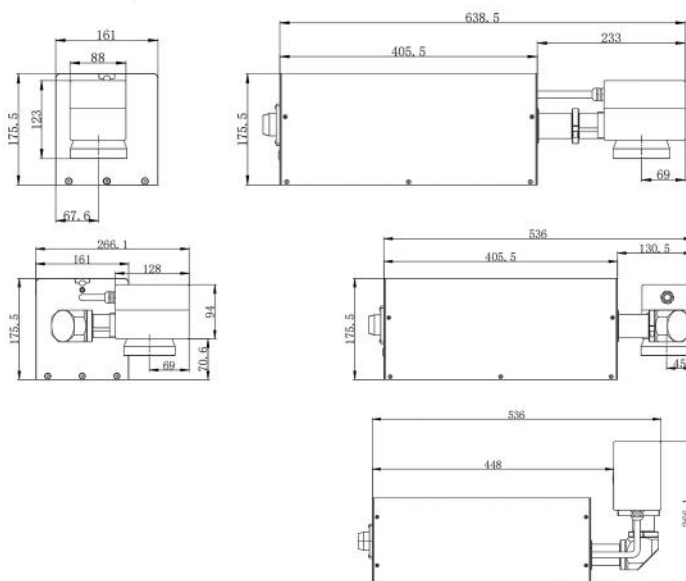- Standard unit: approx. 28kg

Specific Model

F81XXU

03：3W
05：5W
10：10W

Cabinet dimension（mm）

Marking unit dimension（mm）

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