1500 LM FPC

Laser

High Efficiency FPC / PCB Laser Marking Equipment

The equipment is mainly used for PCB and FPC industry. It is designed for marking SUS reinforcing steel sheet, ink layer and solder mask layer on all kinds of FPC/PCB.

It is designed as two slots to increase the productivity. The supported Max. product size up to 260x420mm.

Flexibility

UV nanosecond 355nm laser is configured as standard. The laser core has good beam quality, small marking spot and good marking effect. It could mark 0.2x0.2mm QR code at the minimum.
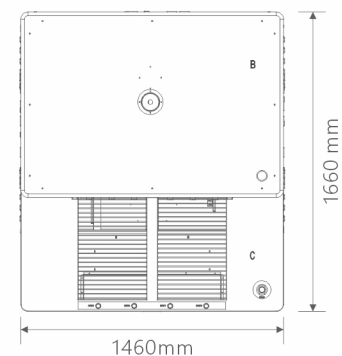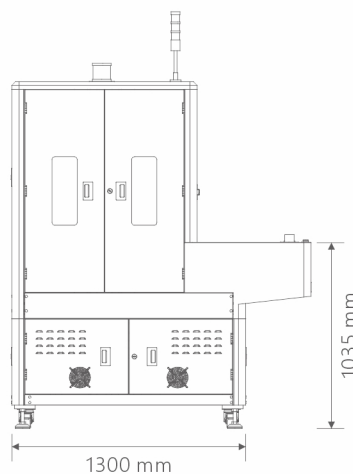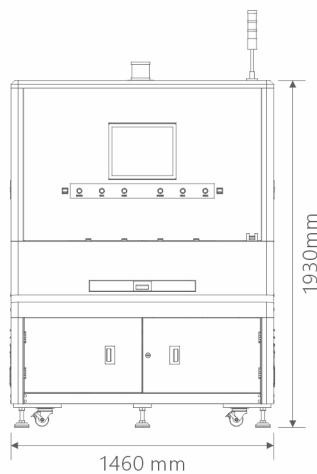
The 532nm green laser, fiber laser or CO_2 laser can be selected according to different material and marking requirement to satisfy personalized needs of different customers.

High Efficiency

Two slots design increase productivity
Less than 1 second per barcode
Built-in vision positioning and inspection system

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Machine Dimension
Width: 1460mm
Depth: 1660mm
Height: 1930mm
Weight: 2500kg

Motion System
X-travel: 800mm
Y-travel: 800mm
Z-travel: 100mm
Repeatability (X, Y): ± 0.05 mm
Max. Product Size (W*L): 260x420mm

Vision System
Vision Positioning
Vision Inspection
Repeatability: ±0.03mm

Laser Core
Laser Type: UV nano laser
        Fiber Laser (Optional)
        Green Laser (Optional)
        CO_2 Laser (Optional)
Laser Wavelength: 355nm
Average Power: 3W/5W
Frequency: 30-100KHz
Pulse Width: <25ns@30KHz

Laser Processing Software
Supported Code Type: Code39, EAN,
        PDF417, PLT,
        DATAMATRIX, QR
Supported File Type: PLT, DXF, AI, DST,
        GBR, NC, BMP, JPG,
        JPEG, GIF, PNG, TIF

Optical System
Scan Field: 100x100mm@F160
        70x70mm@F100 (Optional)
        145x145mm@F210 (Optional)
Scan Speed: ≤7000mm/s@F160
Min. Text Height: 0.2mm

Electrical Service Requirement
Voltage: AC220V/50Hz
Max. Power Cons.: 5.5KW

Pneumatic Service Requirement
Pressure: 5-7 bar
Approx. Air Consumption: 100 L/min

Environment Requirement
Operating Temperature: 10-40℃
Operating Humidity: 30%-85%