

1000 LM SC

Chip Laser Marking Equipment



Cencorp 1000 LM SC is mainly used for Semiconductor industry. It can laser mark IC chip of different sizes. The chip carrier can be switched quickly between different products to increase the production flexibility.

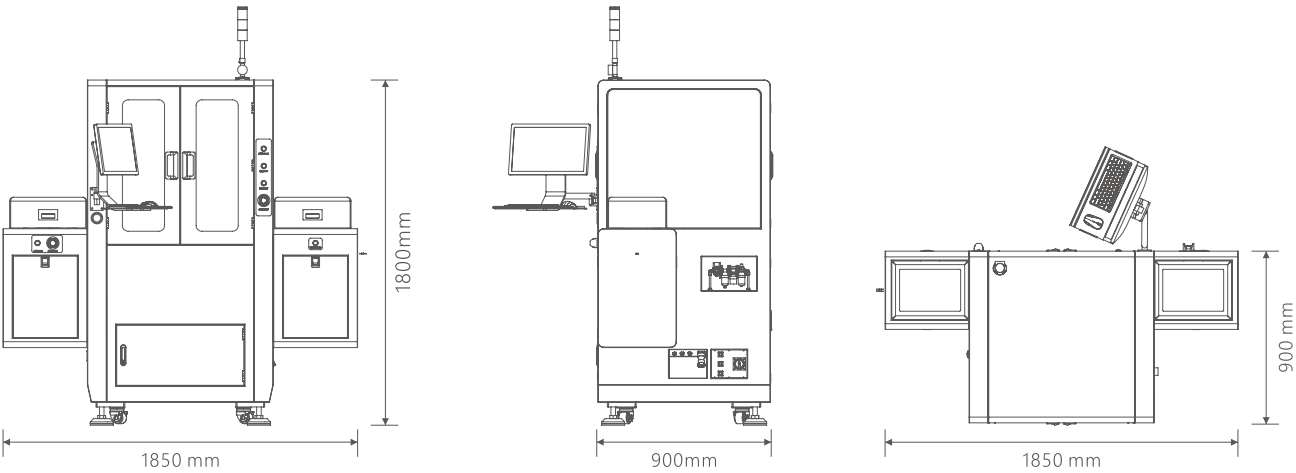
Flexibility

UV nanosecond 355nm laser is configured as standard. The laser core has good beam quality, small marking spot and good marking effect. The 532nm green laser, fiber laser or CO₂ laser can be selected according to different material and marking requirement to satisfy personalized needs of customers.

High Efficiency

Adjustable track width and flow direction
Vision positioning and barcode reading
Automatic adjustment of laser focus
Fully automatic operation

TECHNICAL DATA



Basic Info

Width: 1850mm
Depth: 900mm
Height: 1800mm (Without Beacon)
Height: 2180mm (With Beacon)
Weight: 1000kg

Basic Function

IC chip tray loading and unloading
Laser automatic coding
Conveyor Width Adjustable
CCD Visual Positioning
Equipped with rangefinder, laser auto focusing, eliminating the deformation error of tray
External laser dust removal system

Optional Functions

Laser Coding Level Check

Motion System

X-travel: 550mm
Y-travel: 300mm
Z-travel: 100mm
Repeatability (X, Y, Z): ± 0.01 mm

Processing Capacity

Min Tray Size (L*W) : 200x100mm
Max Tray Size (L*W) : 400x200mm
Min Code Size: 0.5x0.5mm
Coding Level: Above Level B
Coding Position Accuracy: $\leq \pm 0.05$ mm

Laser System

Laser Type: UV Nanosecond Laser
Laser Wavelength: 355nm
Average Power: 5W
Pulse Width: < 25 ns
Average Power Stability: $\leq 5\%$ rms
Cooling Method: water cooling
Scan Field: 100x100mm@F160 (Standard)
70x70mm@F100 (Optional)
Scan Speed: ≤ 7000 mm/s
Scan Repeatability: $\leq 8\mu$ rad
Others: 532nm green laser (Optional)
1064nm fiber laser (Optional)
1064nm Fiber laser (Optional)

Electrical Service Requirement

Voltage: AC220V/50Hz
Max power consumption: 2.2KW

Electrical Service Requirement

Pressure: 5 ~ 7 bar, Dry Clean Air
Approx. air Consumption: 85 L/min

Vision System

Visual positioning and visual inspection
Datum Type: cross, circle, rectangle and product outline
Datum Identification time: < 1 s
Visual Positioning Accuracy: ± 0.01 mm
Auto Calibration / Auto Focus

Software Function

Windows10 Operating System
Standard User Interface
Standard MES Interface
User Rights Management
Automatic calibration of galvanometer BOX
Laser Auto Focus
Support Barcode Type: Code39, EAN, PDF417, PLT, DATAMATRIX, QR
Support Vector File Types: DXF, AI, PLT, SVG, GBR, GBX, etc
Support Bitmap File Types: BMP, JPG, JPEG, GIF, PNG, TIF, TIFF, EMF, etc

Environmental Requirement

Operating Temperature: 10 ~ 40°C
Operating Humidity: 30% ~ 85% No condensation