

LG series

Integrated cap sorting and coding machine



稳速兼优



码随盖印



即打即验



智剔精分

Introduction

The SUNINE LG Series integrated Cap Sorting and Coding System is a fully automatic inline UV laser coding intelligent sorting system, designed for high-speed bottle cap production lines. The system integrates stable feeding, precise cap separation, UV laser marking, real-time QR code collection and inspection, automatic rejection, and accurate distribute into boxes. It supports a production speed of 200 caps/min, achieving full-process automation and intelligent management from material to packaging. Coding supports both fixed codes and variable code packages, facilitating full lifecycle product traceability. It is widely applicable in anti-counterfeiting, sales channel management, and digital marketing in industries such as food, beverages, and daily chemicals.

Applications

Outer code



Inner code



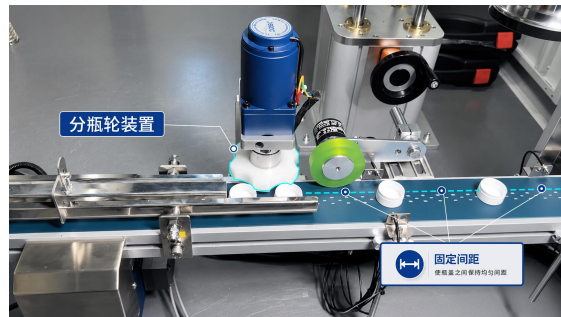
Stable Feeding, No Jamming or Blocking

Equipped with an efficient feeding system to ensure orderly and stable entry of caps into the production line at speeds up to 200 caps/min, without jamming or stacking, providing reliable support for high-speed continuous production.



Precise Separation, Accurate Positioning

A cap separation wheel device maintains a fixed spacing between caps, ensuring precise positioning for coding and inspection stations, avoiding missed markings or misreads caused by uneven spacing.



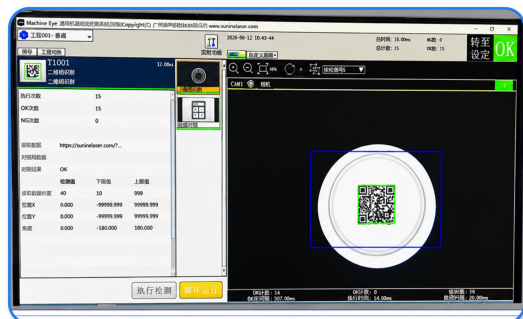
UV Coding, One Cap One Code

An inline UV laser coding system supports fixed codes or code package loading, meeting traceability and anti-counterfeiting requirements. The flying marking speed perfectly matches the production line speed of 200 caps/min, ensuring each cap's QR code is clear, consistent, and permanent.

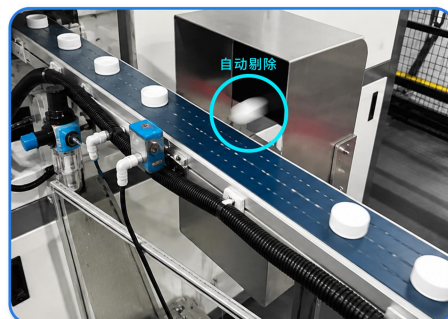


Intelligent Inspection, Rejection, and Sorting : Full Closed-Loop Control

An integrated real-time collection system identifies and verifies QR code content online, compares it with the code package for duplicates, or uploads it to the server. Upon detecting a read failure or duplicate code, the system immediately rejects the defective cap. It can also automatically sort caps into boxes according to preset quantities and can be used with a printer for intelligent management at the end of the production line.

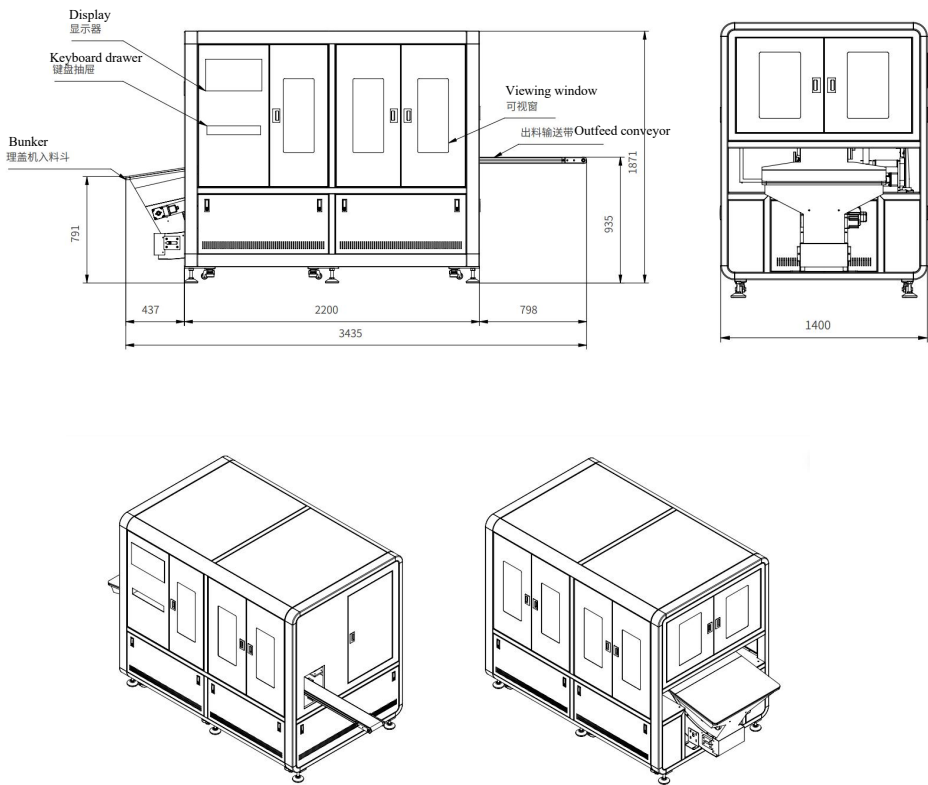


在线识别验证
精准自动剔除



Model	LG200-UV2020C
Machine Material	Steel structure
Applicable Product Size	28/38 caps
Applicable Thickness	Cap thickness 15 - 25 mm (adjustable)
Line Speed	200 caps/min (12,000 caps/hour)
Power supply	380V 50HZ
Power Consumption	≤6.5KW
Net Weight	Approx. 920kg (weight varies with configuration)
Dimensions	3650mm X 1400mm X 2100mm
Pollution Degree	2
Overvoltage Category	II
Operating Temperature	5-40℃

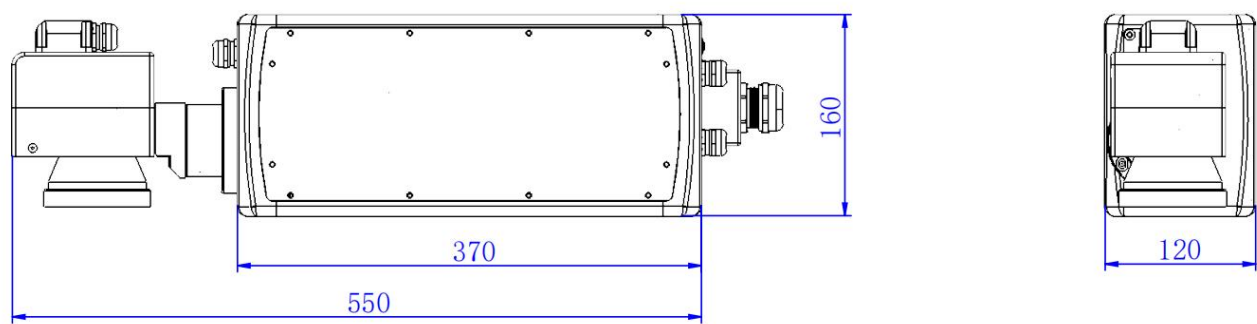
Unit (mm)



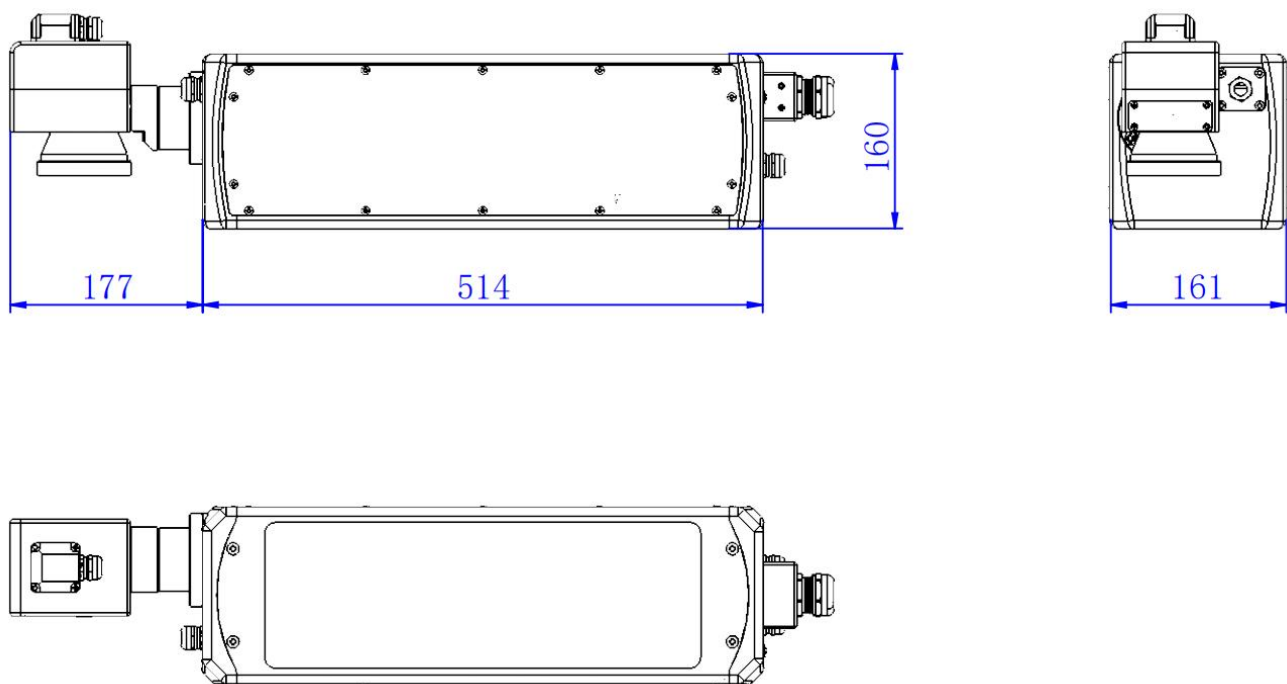
Optional Laser Models

Model	UV1020C	UV1520C	UV2020C
Power	10W	15W	20W
Machine Material	Anodized aluminum structure		
Laser Type	Nanosecond UV laser generator		
Laser Wavelength	355nm		
Printing Method	High-precision dual-axis scanning		
Marking Speed	≤18,000mm/s		
Operating System	Windows		
Cooling System	Constant temperature water cooling		
Reflector Size	Standard: 8.5mm		
Marking field	Standard: 175mm x 175mm Max. option: 600mm x600mm		
Positioning Method	Red light positioning with direction indication, auto focus		
Lines of Characters	No limits within marking field		
Production Line Speed	1~189m/min （depends on material and marking content）		
Fonts	Chinese, English, Korean, Russian, Arabic numerals, etc. standard fonts		
File Formats	BMP/DXF/HPGL/JPEG/PLT		
Barcode/2D Code	CODE39、CODE128、CODE126、QR、Zhenzhi CODE、DM、Vision CODE etc.		
Power supply	220V		
Max Power Consumption (incl. chiller)	≤1400W		
Net Weight	≤45kg	≤55kg	
Laser Head Dimensions	550mmX120mmX160mm	721mmX161mmX160mm	
Chiller Dimensions	490mmX482mmX177mm		
Control Box Dimensions	543mmX482mmX177mm		
Interfaces	RS-232C/USB2.0/Ethernet,I/O		
Enclosure Protection Rating	IP54 （laser scanner part）		
Pollution Degree	2		
Overvoltage Category	II		
Operating Temperature	5-40℃		

Laser head dimension



Note: 10W UV water-cooled laser head dimensions

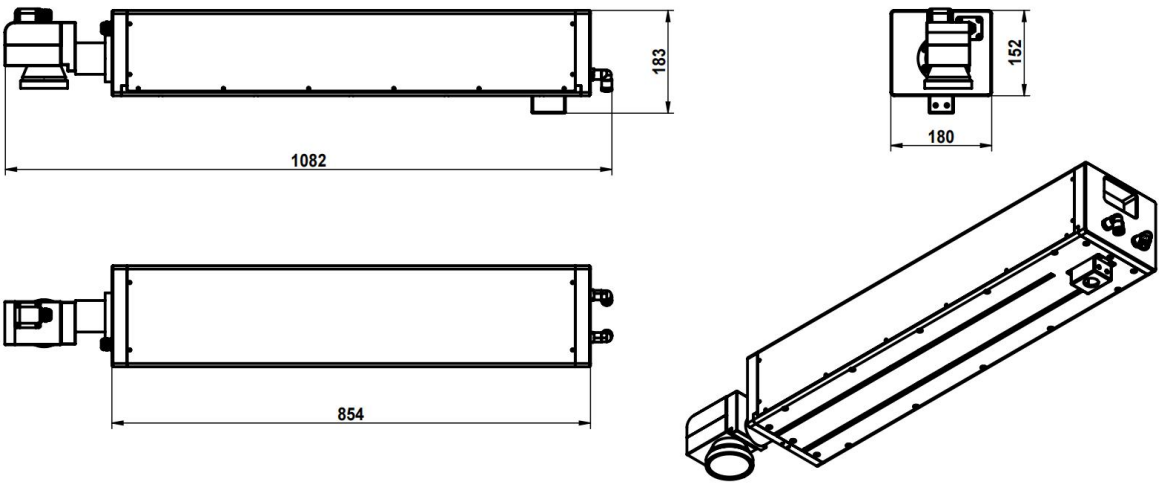


Note: 15/20W UV water-cooled laser head dimensions

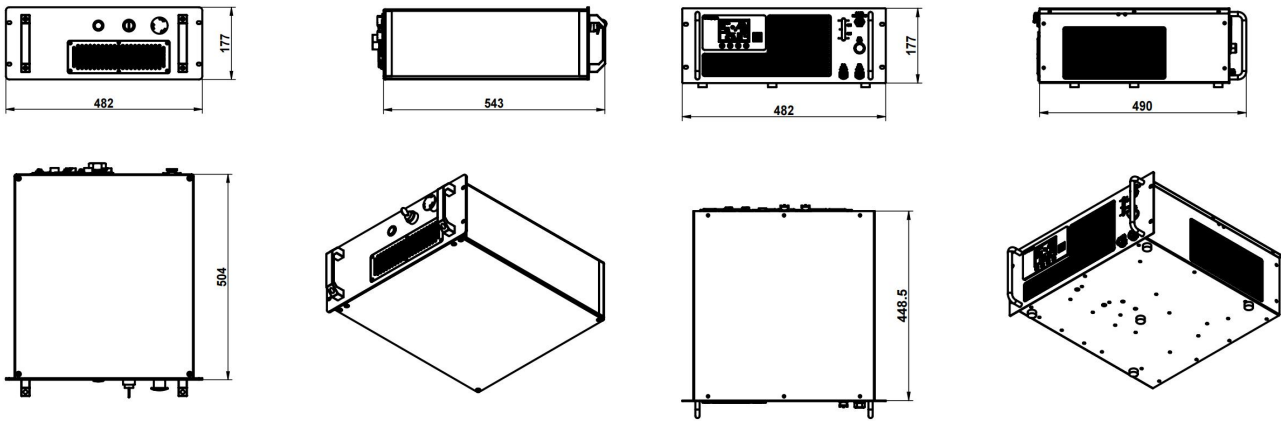
Optional Laser Models

Model	UV2030C	UV3030C
Power	20W	30W
Machine Material	Anodized aluminum structure	
Laser Type	Nanosecond UV laser generator	
Laser Wavelength	355nm	
Printing Method	High-precision dual-axis scanning	
Marking Speed	≤18000mm/s	
Operating System	Windows	
Cooling System	Constant temperature water cooling	
Reflector Size	Standard: 8.5mm	
Marking field	Standard: 175mm x 175mm Max. option: 600mm x600mm	
Positioning Method	Red light positioning with direction indication, auto focus	
Lines of Characters	No limits within marking field	
Production Line Speed	1~189m/min （depends on material and marking content）	
Fonts	Chinese, English, Korean, Russian, Arabic numerals, etc. standard fonts	
File Formats	BMP/DXF/HPGL/JPEG/PLT	
Barcode/2D Code	CODE39、CODE128、CODE126、QR、Zhenzhi CODE、DM、Vision CODE etc.	
Power supply	220V	
Max Power Consumption (incl. chiller)	≤1550W	
Net Weight	≤65kg	
Laser Head Dimensions	1082mmX180mmX152mm	
Chiller Dimensions	490mmX482mmX177mm	
Control Box Dimensions	543mmX482mmX177mm	
Interfaces	RS-232C/USB2.0/Ethernet,I/O	
Enclosure Protection Rating	IP54 （laser scanner part）	
Pollution Degree	2	
Overvoltage Category	II	
Operating Temperature	5-40℃	

Model C Laser head dimension



Note: (C) 20, 30W UV water-cooled laser head dimension



Note: Drawer-type control box dimension

Note: Drawer-type chiller 4U02 dimensions

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