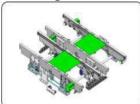
Laser Marking System



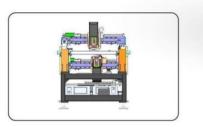
Function Configuration



Double track carving

Directly connected to the placement machine dual track (686mm track width)

•Independent marking mode: simultaneous marking of AB two tracks and different models Independent transmission board, transmission time is 0

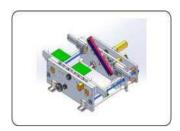


Double-sided marking on upper and lower heads

Simultaneous marking on side A and side B $\,$

Efficiency increased by 100%





- Built-in flap
- •Double-sided coding, flipping the front and back,
- •Reduce transmission time and increase efficiency by 30%



Minimal software operation interface

- YSL independent research and development
- step by step program editing steps
- One-click point setting
- $\hbox{\bf \cdot} \hbox{\bf Multi-module custom barcode editing } \\ \hbox{\bf rules}$

Product Features

业界最小点径: 0.11mm Industry minimum size: 0.11mm

业界最高镭射稳定度: Highest laser stability in the industry 输出功率波动率<1% Output power volatility rate<1%

高精度视觉定位 High - precision vision positioning 重复刻印精度: ±25μm Repeat engraving precision:±25μm

智能化 防呆防重雕

Intelligent Poka-yoke and defense anti-repeated carving

定制化MES系统对接 Customized MES system docking

全功能激光模块化设计 Fully functional laser modular design

定制化激光追溯系统

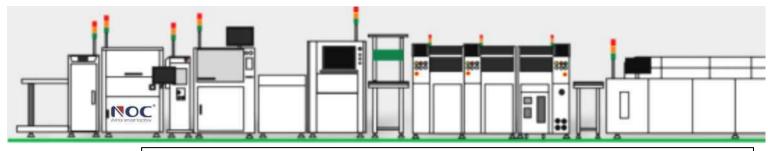
Customized laser traceability system

读取率100% Read rate 100%

高精度视觉检测系统

High precision vision inspection system

Application Solutions



Online

Can be placed at the forefront of the production line. After the incoming mark is completed, it flows into the production line for follow-up operations, MES interconnection, intelligent traceability!

Application scenario

Coding effect

Recommended models

Green ink









YS450C/A/P S450G

Red ink









YS450C/A/P S450G

Black ink

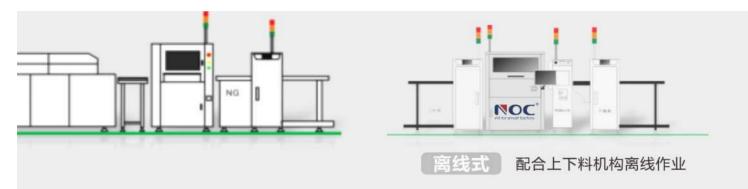








YS450C/A/P S450G



Application scenario

Coding effect

Recommended models

 co_2

GR

UV

Fiber

White ink









YS450C/A/P YS450G YS450F YS450U

Blue ink









YS450C/A/P YS450G

FPC steel sheet









YS300U/SP80 YS450G

Process Comparison

As a modern precision processing method, laser marking technology has unparalleled advantages compared with traditional processing methods such as machine labeling, manual labeling, coding and printing:

- 1. The laser is used as a processing method, and there is no processing force between the marking parts, and it has the advantage of no contact, which ensures no deformation and damage of the PCB or components. At the same time, it has wide adaptability to materials, can make very fine marks on the surface of a variety of materials, and has very good durability;
- 2. The laser has good spatial control and time control, and has great freedom in the material, shape, size and processing environment of the marking object. It is especially suitable for automatic marking and special surface marking. And the processing method is flexible, which can not only meet the needs of laboratory-style single-item design, but also meet the requirements of industrialized mass production;
- 3. The laser marking is fine, and the lines can reach the order of millimeters to micrometers. The imitation and modification of marks made by laser marking technology are very difficult, which is extremely important for product anti-counterfeiting;
- 4. The combination of laser processing system and FA industrial control technology can form high-efficiency automatic processing equipment, which can print various words, symbols and patterns, easy to use software to design marking patterns, change marking content, and adapt to the high-efficiency and fast-paced requirements of modern production:
- 5. Compared with traditional labeling/coding, laser processing has no pollution sources/consumables, and it is a clean and pollution-free high environmental protection processing technology;

	Labeling	Coding	Laser engraving	Fine lines
line	Millimeter	Millimeter	Micron level (minimum 40um)	Minimal font
Minimal font	2mm	2mm	100um	
Minimum QR code	5*5mm	4*4mm	1*1mm	Save area
Requirements for PCB board space	Need enough space	Need enough space	Anywhere	Environmentally fr
Consumables	Yes (high cost)	Yes (high cost)	none	Environmentally if
Firmness	Easy to fall off and damage	Easy to fall off and damage	Engraved on the surface, never lost	Anti-counterfe

25 Twice

20 Times

5 times

riendly and no consumables Yes

Reiting, and permanent Excellent









Non-contact, no deformation Yes

Various surface marking 0K

(Specification

					, , , , , , , , , , , , , , , , , , , ,			
Mode1		YS250 系列	YS300 系列	YS400 系列	YS450 系列	YS600 系列		
Lase rType		CO2/GR/UV/Fiber						
				±25 im				
Repeat Posi	tioning Accuracy							
Positioning Sys		CCD + MARK Positioning						
Barcode Detect				CD Online Detection	1			
Maximum PCB Siz	ze	250mmX250mm 200mm X200mm 400mmX300mm 450mm X400mm 600mmX						
CB Thickness				0. 5mm-5mm				
CB Pass Height	t	UP:25mm DOWN:25mm						
The Thin Plate	Anti-Warpage System		Suppor	t(Upperand Lower Splint)				
Direction of T	rack Transmission	L-R / R-L / L-L						
Track Width Adjustment				Automaticity				
Double S	ide Engraving	Upperand lower Laser Engraving at the same time	Mono rail	Monorail	Monorail/Buil-in Rollover/Double- Sided Radium Carving	Monorai1		
	Character	English Uppercase x English lowercase x Figure x Katakana、Chinese Characters						
	character	Symbol, User Save Text (Up to 50 Types)						
Ingraving bject*Type	Barcode	CODE39、CODE128、ITF、NW-7、JAN(EAN)/UPC						
3	QR code	QR Code x Micro QR Code _s IQR Code s Data Matrix _x GS1 Data Matrix						
	Graphic Data	VEC: X4、DXF、BMP、HPGL、JPEG、A1、EPS						
moke Treatment	t Mode	Automatic Smoke Purific	ation System					
Softw								
Software Interi		Chinese and English opt						
oka-yoke Funct		Automatic identification of PCB reverse/reverse/wrong materials						
Selective Print	ting	DentifyBAD MARK ,do not perform well, antomatically skip						
		SHOPFLOW, MES, IMS, PMS, Database, U disk, local setting bar code principle, number, time serial number						
Barcode data so			SHOPFLOW, MES, IMS, PMS, Database、USB flash disk、This machi ne sets the barcode rules figure、Time serial number					
System Connect	tion Function		S, IMS, PMS and other mana					
Database		Each Model can be archi	ved, directly tunde when					
Engraving Angle	е			0-360°				
Othe	ers							
Input Voltage		AC220V 50/60HZ						
neumatic Suppl	ly			>0.5MPa				
Environmental Requirement 5~40° C ,30~80Rh								
		760*1550*1600mm	680*1500*1550mm	850*1410*1450mm	1000*1550*1600mm	1070*1780*1500mm		
	chi ne(Long*Wi dth*							
				(I /W /II)	(L/W/H)	(L/W/H)		
		(L/W/H)	(L/W/H)	(L/W/H)				
Hi gh) Equipment Weigh		800KG	550KG	680KG	700KG/850KG/1000KG	950KG		
Hi gh)								
Hi gh) Equipment Weigh	fication	800KG	550KG	680KG	700KG/850KG/1000KG	950KG		
Hi gh) Equipment Weigh Laser Speci	fication	800KG CO 2	550KG Fiber	680KG UV	700KG/850KG/1000KG GR	950KG MOPA		
Ii gh) <u>Equipment Weigh</u> <u>Laser Speci</u> <u>Laser Wavelengt</u> <u>aser Power</u>	fication th	800KG CO 2 10.6nm	550KG Fiber 1064nm	680KG UV 355nm 3W/5W/12W	700KG/850KG/1000KG GR 532nm 7W/10W	950KG MOPA 1064nm 20W/30W/50W		
Hi gh) Equipment Weigh Laser Speci Laser Wavelengt Laser Power	fication th	800KG CO 2 10.6nm	550KG Fiber 1064nm	680KG UV 355nm 3W/5W/12W Water-Cooling	700KG/850KG/1000KG GR 532nm	950KG MOPA 1064nm		
Hi gh) Equipment Weigh Laser Speci Laser Wavelengt Laser Power	fication th	800KG CO 2 10.6nm 5W/10W	550KG Fiber 1064nm 20W/30W/50W	680KG UV 355nm 3W/5W/12W	700KG/850KG/1000KG GR 532nm 7W/10W	950KG MOPA 1064nm 20W/30W/50W		
High) Equipment Weight Laser Speciaser Wavelengt Laser Power Laser Cooling Maser Level	fication th	800KG CO 2 10.6nm 5W/10W	550KG Fiber 1064nm 20W/30W/50W Air cooling	680KG UV 355nm 3W/5W/12W Water-Cooling	700KG/850KG/1000KG GR 532nm 7W/10W Water-Cooling	950KG MOPA 1064nm 20W/30W/50W		
Hi gh) Equipment Weigh Laser Speci Laser Wavelengt Laser Power Laser Cooling M	fication th	800KG CO 2 10.6nm 5W/10W	550KG Fiber 1064nm 20W/30W/50W Air cooling	680KG UV 355nm 3W/5W/12W Water-Cooling Class4	700KG/850KG/1000KG GR 532nm 7W/10W Water-Cooling	950KG MOPA 1064nm 20W/30W/50W		

Customer





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