A & N Technologies

Reliable and Durable

OUR MISSION

Operating at our Houston office and Hefei factory, we are missioned to provide our clients with reliable and durable products, including packages, equipments, materials, and services.

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LASER MARKING MACHINE

LASER MARKING MACHINE(I)

Applicable for: gold-plated components, non-destructive.

PARAMETERS (CONFIGURABLE)	
Model	XC-10A/10B/10G
Wavelength	532 nm
Avg. Output Power	10 W
Beam Quality M^2	≤ 1.2
Marking Speed	8000 mm/s
Marking Range	110mm × 110mm (F160) 160mm × 160mm (F254)
Min. Character Height	0.2mm
Colling Method	Air cooling/Water cooling

LASER MARKING MACHINE(II)

Applicable for: specifically alumina materials; Designed lifespan of 100,000 hours, maintenance-free; Performance parameters and cost-effectiveness surpass UV; Built-in vision for precise positioning and rapid marking.

PARAMETERS (CONFIGURABLE)	
Model	XC-30TC
Wavelength	1064 nm
Avg. Output Power	30 W
Beam Quality M^2	≤ 1.5
Marking Speed	8000 mm/s
Marking Range	110mm × 110mm (F160) 160mm × 160mm (F254)
Min. Character Height	0.2mm
Colling Method	Air cooling

FIBER LASER MARKING MACHINE(III)

Applicable for: metal materials and some non-metal materials, primarily used in fields that require high standards of depth, smoothness, and precision.

PARAMETERS (CONFIGURABLE)						
Model	XC-20	XC-30	XC-50	XC-100	XC-MP-20	XC-MP-50
Avg. Output Power	20 W	30 W	50 W	100 W	20 W	50 W
Wavelength	1064 nm					
Beam Quality M^2	≤ 1.5					
Marking Speed	8000 mm/s					
Marking Range	110mm × 110mm (F160) 160mm × 160mm (F254)					
Min. Character Height	0.2mm					
Repetition Frequency	20 – 200 kHz					

UV LASER MARKING MACHINE(IV)

Applicable for: precision marking and micro-processing across various materials that demand high clarity, precision, and minimal thermal damage. Its applications includes: Electronics, Semiconductor Industry, Pharmaceutical Packaging, Glass and Ceramic Products, Polymer Materials, etc..

PARAMETERS (CONFIGURABLE)				
Model	XC-355-3	XC-355-5	XC-355-10	XC-355-15
Avg. Output Power	3 *W*	5 *W*	10 *W*	15 *W*
Wavelength	355 nm			
Beam Quality M^2	≤ 1.2			
Marking Speed	8000 mm/s			
Marking Range	110mm × 110mm (F160) 160mm × 160mm (F254)			
Min. Character Height	0.2mm			
Colling Method	Air cooling			

CO_2 LASER MARKING MACHINE(V)

Applicable for: marking non-metal materials: Its applications includes: Packaging Industry (batch number, production dates), Textile and Garment Industry (engraving on fabrics, leather), Crafts and Gifts (engraving on wood, bamboo), Electronics and Appliances (marking on plastic casings), Building Materials (Engraving on ceramic, glass, acrylic).

PARAMETERS (CONFIGURABLE)			
Model	CO2-30	CO2-50	CO2-100
Avg. Output Power	30 *W*	55 *W*	30 *W*
Wavelength	10640 nm		
Marking Speed	8000 mm/s		
Marking Range	110mm × 110mm 140mm × 140mm 175mm × 175mm		

CO_2 LASER MARKING MACHINE(VI)

Applicable for: engraving a variety of materials, including metals and alloys, metal oxides, hard plastics, leather, and more.

FEATURES:

- High-Speed Engraving | Up to 8000mm/s
  - Powered by a self-developed fiber laser source with stable performance and peak power of 7.5kW. Faster processing speed and better results.
- Industrial Vibrating Mirror | Precision Achieved
  - Equipped with ultra-high precision industrial-grade vibrating mirrors, with a focus spot diameter of only 50μm, integrated with advanced digital control systems and software to meet precise and detailed engraving needs.
- Handheld Engraving | Convenient and Enjoyable
  - Can be used for handheld engraving, unrestricted by the size or location of the object being engraved. The main unit weighs only 2.3kg, making it easy to operate with one hand.

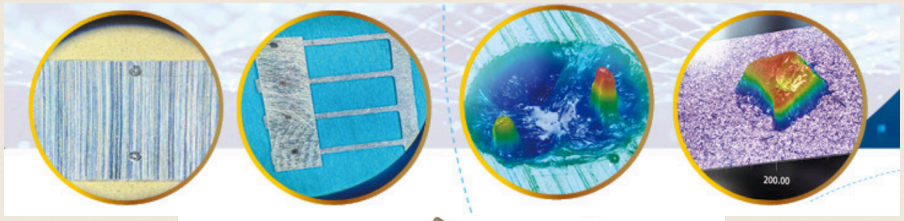
PARAMETERS			
Model	Purple Tung 2 Pro	Lase Type	Pulsed Fiber Laer
Output Power	20 W	Weight	2.3kg
Wavelength	1064 nm	Dimension	228 × 82 × 100mm
Marking Speed	8000 mm/s	Working Distance	188 mm
Marking Range	100mm × 100mm	Operating Temperature	0-40 °C

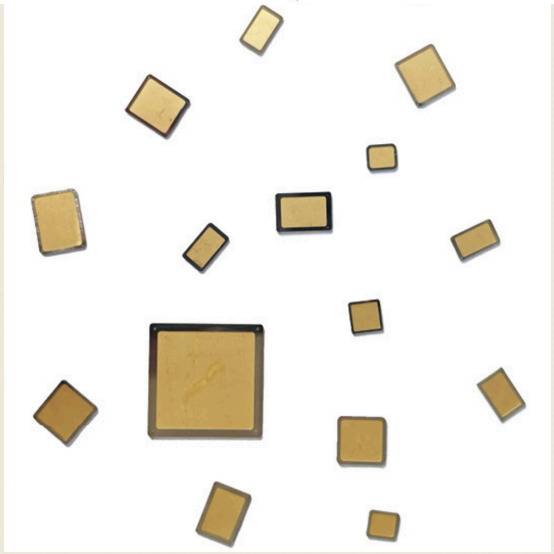
LASER SPOT WELDING MACHINE

Applicable for: welding silver-copper and gold-tin pre-positioned weld tabs.

FEATURES:

- The welding points do not penetrate the substrate, leaving no heat-affected zone on the back of the substrate.
- Low porosity rate.
- Built-in vision for precise positioning, making the process fast and efficient.





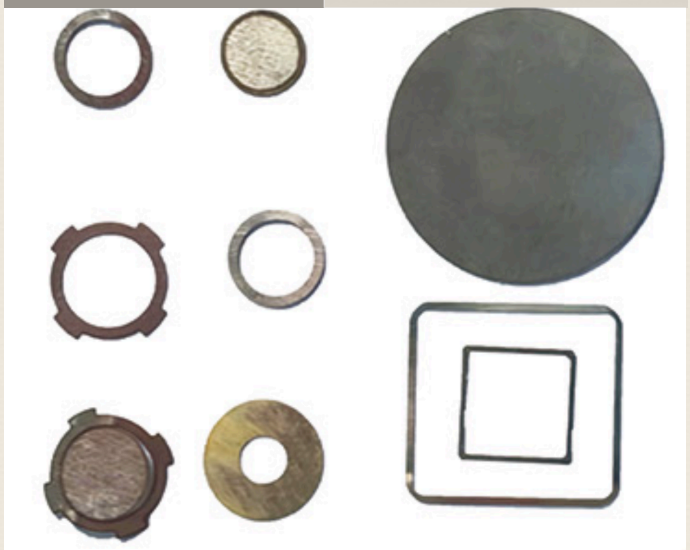
LASER CUTTING MACHINE(I)

Applicable for: gold-tin/silver-copper solder tab.

FEATURES:

- Cold light source to minimize thermal effects.
- Vacuum suction for ensuring solder tab flatness.
- Simple operation.

PARAMETERS		
Avg. Output Power	10 W	15 W
Wavelength	355 nm	
Beam Quality M^2	≤ 1.2	
Cutting Range	Configurable	



LASER CUTTING MACHINE(II)

Applicable for: copper-diamond (Cu-diamond) and Aluminum-diamond (Al-diamond).

PARAMETERS	
Motion Platform Structure	XY dynamic gantry with dual-drive
X-axis Effective Travel (mm)	600 (configurable)
Y-axis Effective Travel (mm)	600 (configurable)
Z-axis Effective Travel (mm)	100
XY Single-Axis Repeat Accuracy (μm)	3
Z Single-Axis Repeat Accuracy (μm)	0.01
XY Single-Axis Max Speed (mm/s)	1000
XY Single-Axis Max Acceleration (g)	1
Visual Precision (mm)	≤ ±0.02 (customizable)
Cutting Thickness	customizable