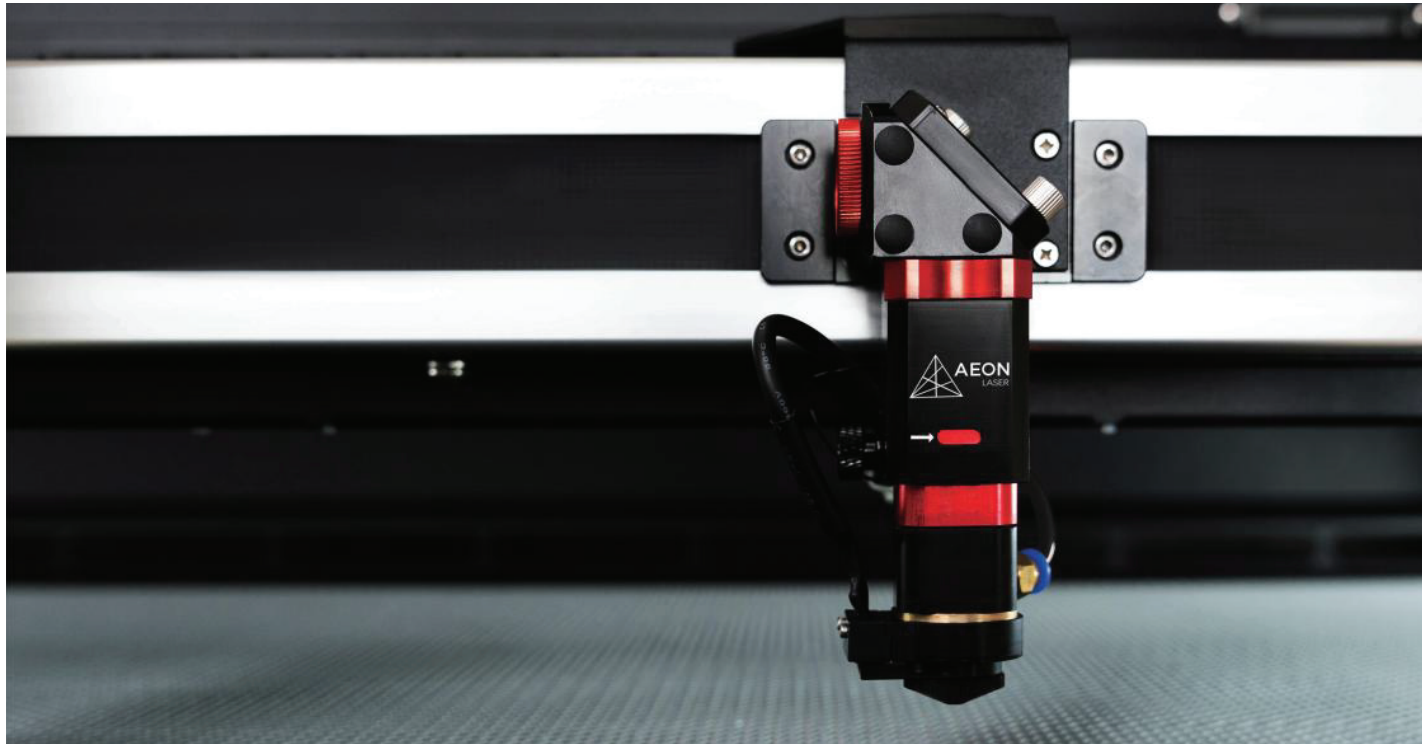# NOVA *Super*/Elite

Industrial quality CO2 laser processing machine

Be prepared to be amazed by the NOVA Super -the latest design by Aeon Laser Team. It's full of all sorts of new goodies that will make any laser owner fall in love. NOVA Super series is a beast with more advanced technologies. DC laser tube + RF laser tube, combines the ultra high resolution and speeds customary of metal RF laser tubes, with maximum scan speed up to 2000mm/s, 5G speed acceleration. Powerful hardware and performance, equipped with our independently developed intelligent monitoring and diagnostic system, cleverly balancing speed and precision, ensuring strong functionality while simplifying operation,it's the ultimate machine!

Main Features
主 要 特 点

1.Superior Speed
   Max. 2000mm/s(RF) engraving speed, 5G acceleration.
2. Dual Laser soures
   High power Glass laser tube + RF laser tube, ensured both cutting efficiency and engraving quality
   at the same time
3. Fully enclosed dust-proof guide rail
   Nt only protects the cleanliness of the motion system, but also effectively isolates the work area
   and electrical area for comprehensive dust prevention.
4.All-in-one design
   Enjoy a tidy workspace with the built-in water chiller, exhaust fan, and air pump.

5.Visualized laser working status
   The working status of the laser machine and its main components can be visualized. Brings frequently
   used functions right to the panel, key parameters such as water temperature, current, air pressure, all
   can be accessed through the panel.
6.Intelligent detection&diagnosis system
   There are warning and automatic diagnostic functions for the laser power, chiller, RF tube, and other
   components in case of abnormal status.
7.More user-friendly
   Main fuctions and parameters can be adjusted from the panel, laser head equipped with quick-remove
   screw-less design modules, easier& faster to replce lens.
8.Class 1 safty level
   The fully enclosed design is equipped with lid protection, and key switch, making it also suitable for
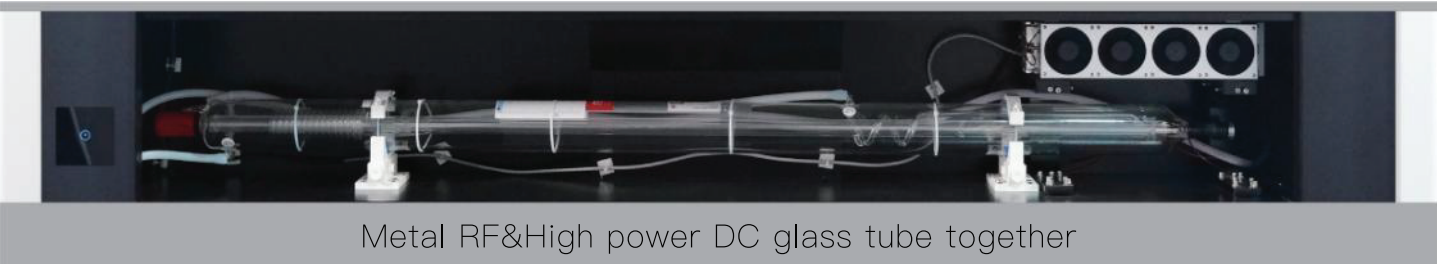   educational institutions such as schools.
9.Double lifting working tables and a material pass-through door provide more options for material
   thickness and size.

NOVA *Super*/Elite

Industrial quality CO2 laser processing machine

The NOVA Elite and NOVA Super series machines share the same appearance design, with the main difference being the laser tube: NOVA Super is a dual laser tube machine with a high-power glass laser tube and an RF laser tube, while NOVA Elite is a single laser tube machine with a medium-to-high power glass laser tube. The Elite series is particularly suitable for cutting different materials, with its all-in-one design making it more compact and friendly for customers with limited space, while its engraving speed can reach up to 1200mm/s. If you are more concerned with the efficiency of engraving and cutting, the highly cost-effective NOVA Elite will be your best choice.
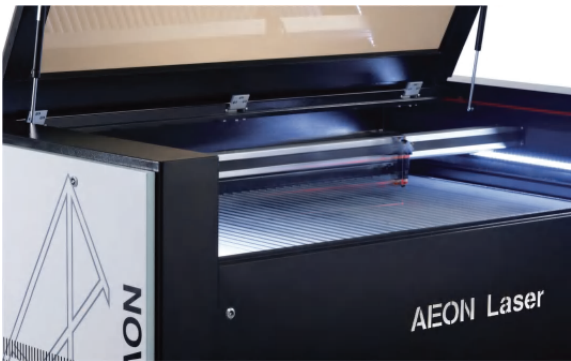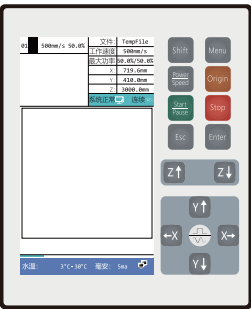

Metal RF&High power DC glass tube together

Integrated S&A custom RMCW-5200

Streamlined keypad

2000mm/s scan speed
5G acceleration speed

Specification
配 置 规 格

Model	Super10 / Elite10	Super14 / Elite14	Super16 / Elite16
Working Area	1000*700mm	1400*900mm	1600*1000mm
Machine Size	1500*1210*1025mm	1900*1410*1025	2100*1510*1025
Laser Tube	90W/100W | RF30W/60W ; 90W/100W	100W/130W | RF30W/60W ; 90W/100W/130	130W/150W | RF30W/60W ;100W/130W/150
Eletric Up&Down	200mm Adjustable	200mm Adjustable	200mm Adjustable
Machine Net Weight	450Kg	520Kg	620Kg
Machine Packing Weight	530Kg	610Kg	730Kg
Packing Size	1600*1320*1225mm	2000*1510*1225mm	2200*1650*1225mm
Input Voltage	220V AC Single Phase 50Hz/60Hz, Optional for 110V AC Single Phase 60Hz		
Rated Power	2600W		
Max Engraving Speed	2000mm/s(super) ; 1200mm/s(Elite)		
Acceleration Speed	5G		
Max Cutting Speed	500mm/Second		
Laser Power Control	1-100% Set by Software		
Minimum Engraving Size	Chinese Character 2.0mm*2.0mm, English Letter 1.0mm*1.0mm		
Locating Precision	<=0.01		
Cutting Thickness	0-30mm(depends on different materials)		
Engraving Software	RDWorks/LightBurn		
Graphic Format Supported	DSP/PLT/BMP/DXF/AI/DWJ etc.		
Compatible Software	CorelDraw/Photoshop/AutoCAD/All kinds of Embroidery Software		
Worktabke	Honeycomb + Aluminum bar table		
Auto Focus	Integrated Autofocus		
Red Dot Positioning	Yes		
Rotary Device	Optional		
Built-in WIFI	Optional		