

# HIGH PRECISION LASER EXPERT

## Nova Plus

Nova Plus is engineered to elevate your engraving and cutting experience with faster, more precise performance, enhanced durability, and user-friendly upgrades.



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# NOVA PLUS MACHINE SPECS

| Specification           | Nova Plus 24   | Nova Plus 35  | Nova Plus 51  | Nova Plus 63   |
|-------------------------|--|---|---|--|
| Engraving/Working Area  | 600*400*155mm<br>(23.6" x 15.7" x 6.1")  | 900*600*225mm<br>(35.4" x 23.6" x 8.9")   | 1300*900*225mm<br>(51.2" x 35.4" x 8.9")  | 1600*1000*225mm<br>(62.9" x 39.4" x 8.9")  |
| Max Part Size           | Pass through closed:<br>615*470*155mm<br>(24.2" x 18.5" x 6.1")<br>Pass through open:<br>610*∞*20mm<br>(24.0" x ∞ x 0.8")                  | Pass through closed:<br>931*651*225mm<br>(36.6" x 25.6" x 8.9")<br>Pass through open:<br>960*∞*20mm<br>(37.8" x ∞ x 0.8") | Pass through closed:<br>1331*955*225mm<br>(52.4" x 37.6" x 8.9")<br>Pass through open:<br>1360*∞*20mm<br>(53.5" x ∞ x 0.8") | Pass through closed:<br>1631*1055*225mm<br>(64.2" x 41.5" x 8.9")<br>Pass through open:<br>1660*∞*20mm<br>(65.4" x ∞ x 0.8") |
| Machine Size            | 1120*868*682mm<br>(44.1" x 34.2" x 26.9")  | 1520*1205*1115mm<br>(59.8" x 47.4" x 43.9")   | 1920*1502*1115mm<br>(75.6" x 59.1" x 43.9")   | 2220*1552*1115mm<br>(87.4" x 61.1" x 43.9")  |
| Net Weight              | 145.8kg (321.5 lb)   | 273.2kg (602.4 lb)  | 377.8kg (833 lb)  | 455kg (921.5 lb)   |
| Laser Wattage           | 60W RF Metal Tube  | 60W RF Metal Tube<br>(50W, 80W, 100W, 120W<br>Optional)   | 60W RF Metal Tube<br>(50W, 80W, 100W, 120W<br>Optional)   | 80W RF Metal Tube  |
| Intelligent Memory      | Store multiple files up to 1 GB. Engrave any file size   |   |   |  |
| Laser Source            | CO2 RF Metal Tube, Unmatched laser precision. Average lifespan: 10000 working hours  |   |   |  |
| Electrical Requirements | 110v or 220v AC 60Hz Single Phase, dedicated 15A circuit   |   |   |  |
| Air Assist              | Dual air assist and air volume meter   |   |   |  |
| Software                | LightBurn software optional; supports Windows, Mac, and Linux  |   |   |  |
| Red Dot Pointer         | Shows where laser will fire; easy positioning  |   |   |  |
| Camera System           | Comes with over-head camera as standard  |   |   |  |
| Operating Modes         | Optimized raster, vector, or combined modes  |   |   |  |
| Easy Adjustable Home    | New home position can be set by hand for items not easily placed in the top corner   |   |   |  |
| Motion Control System   | Engraving speeds up to 1,200mm/s   |   |   |  |
| Resolution              | Up to 1000dpi with included 2.5" head or 2000dpi with 1.5" head  |   |   |  |
| Safety                  | Open cover protection, air assist protection, heat alarm system  |   |   |  |
| Auto Focus              | Cone-head touch auto focus system  |   |   |  |
| Cooling                 | Air Cooling (50W, 60W, 80W) / Water Cooling (100W, 120W )  |   |   |  |
| Motorized Table         | Includes removable honeycomb and solid metal blade (knife-style) bed   |   |   |  |
| Laser Heads             | 2.5" Head / Lens included; Optional 1.5", 2.0" and 4.0" heads available.   |   |   |  |
| TL-Timer (Smart Board)  | Relay switch controls for red and green alarm lights, air assist system, exhaust system, and automatic power supply for rotary attachment. |   |   |  |
| Warning Light           | Red light means working, and green light means safe  |   |   |  |
| Warranty                | The whole machine is under warranty for two years, and the RF tube is for one year   |   |   |  |

# UPGRADES IN THE NOVA PLUS



## Metal RF Laser Tube

With an impressive 2000 DPI resolution and an extended lifespan of up to 10,000 hours, the Metal RF Laser Tube delivers exceptionally high and stable laser beam quality. Offering superior performance and cost efficiency compared to traditional glass tubes.



## High-Resolution Camera

Equipped with a standard 5M camera, Nova Plus ensures a crystal-clear and precise view of your workspace. It significantly improves material alignment and design accuracy, making it ideal for handling intricate engraving or cutting projects with ease.



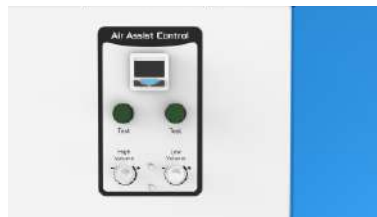
## Laser Head Versatility

A high-quality laser head ensures superior laser beam output. Including the standard 2.5-inch lens, we offer four interchangeable lens sizes: 1.5 inches, 2 inches, 2.5 inches, and 4 inches. You can select the lens that best meets the requirements of your laser project.



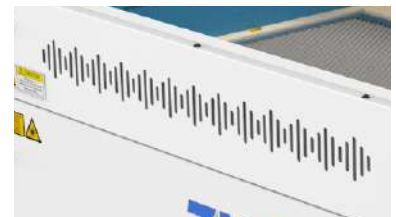
## Touch-Based Auto Focus

Effortlessly achieve precise focus anywhere within the laser head's reach. This touch-based method is unaffected by environmental factors or uneven material surfaces, making it perfect for precise focusing even on transparent materials.



## Air Assist and Air Pressure Monitoring

The Air Volume Sensor provides real-time air pressure monitoring, allowing you to adjust the air assist accordingly. Together, these features maintain stable air pressure to prevent material combustion caused by low pressure, safeguarding both the machine and the operator.



## Enhanced Air Intake

With an air vent area of up to 15,080 cm<sup>2</sup>, the enhanced air intake facilitates better airflow, effectively reducing smoke and dust during laser processing. This helps create a cleaner work.

# WHAT NOVA PLUS CAN CREATE



Wood Signs



Engraving Photo



Home Decor



Coffee Table



Hat Customization



Tumblers



Wood Map



Signs



Wooden Model



Leather Patch



Custom Fabric