



# 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 (23.6"x 15.7"x 6.1")	900*600*225mm (35.4"x 23.6"x 8.9")	1300*900*225mm (51.2" x 35.4" x 8.9")	1600*1000*225mm (62.9" x 39.4" x 8.9")
Max Part Size	Pass through closed: 615*470*155mm (24.2"x 18.5"x 6.1") Pass through open: 610*∞*20mm (24.0"x ∞ x 0.8")	Pass through closed: 931*651*225mm (36.6"x 25.6"x 8.9") Pass through open: 960*∞*20mm (37.8"x ∞ x 0.8")	Pass through closed: 1331*955*225mm (52.4" x 37.6" x 8.9") Pass through open: 1360*∞*20mm (53.5" x ∞ x 0.8")	Pass through closed: 1631*1055*225mm (64.2" x 41.5" x 8.9") Pass through open: 1660*∞*20mm (65.4" x ∞ x 0.8")
Machine Size	1120*868*682mm (44.1" x 34.2" x 26.9")	1520*1205*1115mm (59.8" x 47.4" x 43.9")	1920*1502*1115mm (75.6" x 59.1" x 43.9")	2220*1552*1115mm (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 (50W, 80W, 100W, 120W Optional)	60W RF Metal Tube (50W, 80W, 100W, 120W 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