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AEON NOVA SERIES

CLASS 1 PROFESSIONAL CO2 LASER ENGRAVING & CUTTING MACHINES



The inspiration for our latest Nova series comes from the extraordinary all-in-one design concept of our Mira line. Our Aeon R&D team gave the Nova machine body a complete makeover with the aim to make a compact yet professional system with enhanced functionality. The new Nova series is designed strictly in accordance to Class 1 laser standards.

It's fully enclosed machine body with locking access panels and keyed ignition, makes this professional grade laser suitable for any business, maker space or educational program. The new design preserves the best features from the previous generation, such as the Clean Pack Design and high speed digital stepper motors, while adding some finishing touches, like a built-in air pressure gauge and an air pressure regulating valve.

Unlike every other CO2 laser of this caliber, the Nova series does not take up anymore space than necessary. The Nova's machine body houses a built-in vapor compression water chiller, heavy duty exhaust fan, and a standard air assist pump. Aside from having a reduced footprint, the Nova series can also be broken down into two parts so that it can fit through tight hallways and standard doorways. The motorized work table now incorporates both the blade and honeycomb table so that auto focus can be used with either option. The Aeon R&D team really thought of everything and even added some smaller perks, such as an auto sensing rotary port, conveniently located on the inside of the machine, and a scrap collection drawer at the base of the machine for those messy cutting applications. All that's left to do is plug it in and get to work.



- ✓ **Clean Pack Design:** Our unique linear motion design utilizes the drive belts themselves to enclose the linear rails and bearing blocks so that they are protected from smoke and debris and can continue to operate without frequent maintenance or repairs.
- ✓ **Fastest in its Class:** Thanks to Aeon's lightweight laser head design and high speed digital stepper motors, the Nova can achieve 1.8G of acceleration resulting in scan speeds of up to 1000 mm/sec and cutting speeds of up to 300 mm/sec.
- ✓ **All-In-One System:** If space is of concern, you'll be pleased to know that Aeon is the first in the laser industry to offer an all-In-one solution comprised of an integrated vapor compression water chiller, exhaust fan and air assist pump so that no extra space is needed for ancillary components.
- ✓ **Smart Rotary Device:** Engrave cylindrical items with either a rotary chuck or a roller rotary and enjoy a painless transition between flat engraving and rotary engraving, thanks to an auto sensing rotary port.
- ✓ **Multiple Interfaces:** Easily send jobs from your PC or Mac via USB, Ethernet or WiFi. There is even 256 MB of onboard memory built right into the controller for storing popular jobs, or you can even run programs straight from a USB Flash Drive.
- ✓ **Software:** Quickly recall or layout simple designs with the included RDWorks software or upgrade to LightBurn for an enhanced user experience. For those already familiar with graphic design, simply import graphics directly from CorelDraw, AutoCAD and Illustrator via the handy plugins.
- ✓ **Red Dot Pointer:** Mirror alignment has never been easier thanks to an inline beam combiner that also serves as an accurate red dot pointer. This visual aid eliminates any guesswork by allowing you to place items inside the machine and quickly position them for accuracy.



Roller Rotary

Expand your capabilities with this versatile roller rotary device. Perfect for engraving bottles, champagne flutes, wine glasses, tumblers, etc.



Rotary Chuck

The more precise way of handling cylindrical items is with this 3 jaw rotary chuck. Clamp any item up to 3.93" (100mm) in diameter and rotate it for 360 degree engraving.



550W Air Compressor

Removal of smoke is essential in cutting applications, not only to protect the focal lens, but to also ensure that the intensity of the laser beam is not diminished.



Fume Extractor

For setups in public places or in areas with limited access to the outdoors, this heavy-duty, 4-stage fume extractor is up to the task.



Remote Control

Programming is a breeze with our advanced DSP digital control system or an optional wireless remote that puts all of the controls right in the palm of your hand.



Camera

Get a bird's eye view of your workspace right on your computer screen for quick and accurate placement of your design, so that you don't have to measure (Lightburn upgrade required).

Specs	Description	Optional
Workspace	Nova 10 - 27-1/2" x 39-3/8" (70cm x 100cm) Nova 14 - 35-3/8" x 55-1/8" (90cm x 140cm) Nova 16 - 39-3/8" x 63" (100cm x 160cm)	
Machine Weight	Nova 10 - 860 lbs. (390kg) Nova 14 - 1058 lbs. (480kg) Nova 16 - 1213 lbs. (550kg)	
Total Height Clearance	10" (254mm)	
Wattage Options	60W-300W Premium CO2 Glass Tube	30W (Chinese RF), 60W/80W/100W (Iradion RF)
Driving System	High Speed Digital Stepper Motors	
Engraving Speed	0-1000mm/sec	
Cutting Speed	0-300mm/sec	
Z-Axis Travel	7-7/8" (200mm)	
Max Acceleration	1.8G	
Blower	330W Built-In Exhaust Fan	
Air Assist	105W Built-In Air Pump	
Cooling	Fan Cooled (5000) Water Chiller	
Add-ons	Roller Rotary, Rotary Chuck, 550W Air Compressor, Fume Extractor, Remote Control, Camera	
Support	All Aeon lasers are backed by a 2 year factory warranty and our Lifeline Plus care plan, which includes remote startup training and unlimited US based phone support.	

Come Visit our Melbourne, FL Showroom! (60 min. from Orlando, 40 min. from Cape Canaveral, 20 min. from Cocoa Beach)

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