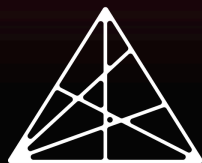




NOVA 14S - 130W RF



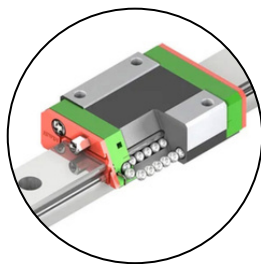
**AEON**  
Laser USA

# NOVA 14S REDLINE CO2 Laser Cutter & Engraver

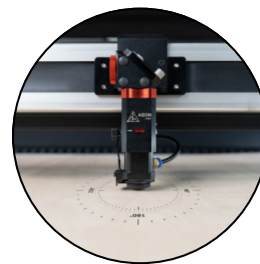
features:



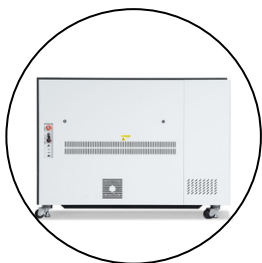
**5G ACCELERATION**



**HIWIN LINEAR RAILS**



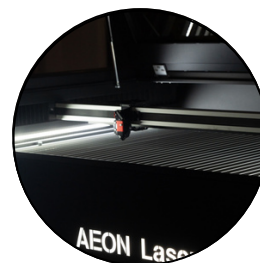
**LIGHTWEIGHT LASER HEAD**



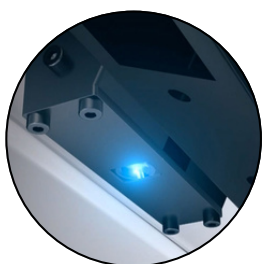
**RIGID FRAME**



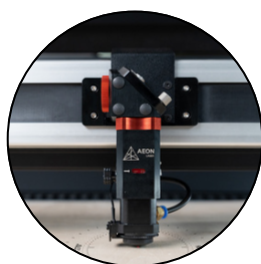
**ALL-IN-ONE DESIGN**



**AEROSPACE ALUMINUM GANTRY**



**HD LID CAMERA**



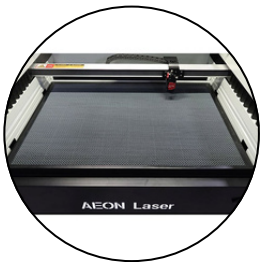
**INTEGRATED AUTOFOCUS**



**MATERIAL PASS THROUGH**

The NOVA 14S with a 130W CO<sub>2</sub> RF metal tube is a powerful large-format production system designed for businesses that need high speeds, reliability, and versatility. With its spacious work area and high-powered RF tube, the NOVA 14S excels at cutting and engraving a wide range of materials, making it ideal for high-throughput production and large-scale projects.

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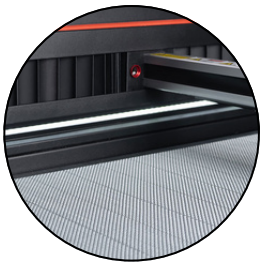
**SUPER BRIGHT WORK AREA**



**RBG STATUS LIGHT**



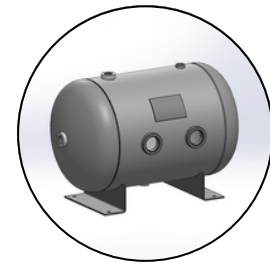
**INTUITIVE LCD DISPLAY**



**SAFE-GUARDED OPTICS**



**SAFE-GUARDED LASER HEAD**



**BUILT-IN COMPRESSED AIR**



**BULLSEYE LEVELING GAUGE**



**TOOLLESS MAINTENANCE  
MIRRORS**



**TOOLLESS MAINTENANCE  
LENS CARTRIDGES**

NOVA 14S

# Measurements



Machine Dimensions  
W 73-3/16" x D 43-1/2" x H 55-3/8"

Z-Axis Max Bed Travel  
7-7/8"

Working Area  
55-1/8" x 35-7/16"

Shipping Dimensions  
W 78-3/8" x D 48-1/4" x H 59"

Machine Weight  
1460 lbs.

Machine Weight + Crate  
1527 lbs.

## NOVA 14S - 130W RF

LASER SOURCE	
Metal RF CO <sub>2</sub>	130W CO <sub>2</sub> Metal RF (Davi)
Cooling Method Metal RF CO <sub>2</sub>	Water

MOTION & PRECISION	
Motors	AC Servos
Guide Rails	Hiwin Linear Rails
Max Acceleration	8G
Max Speed	4200 mm/s
Minimum Font Size	1.0 x 1.0mm
Positioning Accuracy Max	<=0.01mm
Scanning Precision Max	2000 DPI
Red Dot Positioning	✓
Autofocus	Integrated
Wireless Remote Control	Included

COOLING, AIR ASSIST & VENTILATION	
Water Chiller	Built-in S&A 5200 Fan Cooled Chiller
Fume Exhaust Fan	Built-in 500W, 6" Dia. Centrifugal Fan
Air Assist	Integrated
Compressed Air	Built-in 13 Gallon Tank
Smart Air Solenoid Valve	✓

WORK TABLE	
Downdraft Ventilation	✓
Blade Table	✓
Honeycomb Table	✓
Material Collection Tray	✓
Material Pass Through Door	1.5" Height
Table Lifting Capacity	250 lbs

POWER REQUIREMENTS	
Voltage/Frequency	240v/60Hz
Amperage	30A Dedicated Circuit
Rated Power Draw	1,400W

**NOVA 14S - 130W RF**

<b>CONTROL &amp; SOFTWARE</b>	
Control Panel	5" Keypad & LCD display
Memory Capacity	1 GB
Lightburn Software	Included (\$199 Value)
Wifi Data Transfer	Integrated
Operating System	Windows & Mac
Supported File Formats	AI/PDF/DXF/PLT/SVG/DXF/SC/BMP/JPEG/JPG/PNG/GIF/ TIFF/TIF/TGA

<b>OPTICS</b>	
Toolless Mirror Change	✓
Magnetic Lens Cartridge	✓
Isolated Optics	✓
2" Lens	Optional
2.5" Lens	Standard
4" Lens	Optional
Mirror Sizes	φ 25mm (x3)
Beam Combiner	φ 25mm
Window	φ 20mm

<b>SAFETY</b>	
Safety Level	Class 1
Smart Monitoring	✓
Optics Temperature Alarm	✓
Diagnostic Log	✓
LED Status Light	✓
Lid Interlock	✓
Side Panel Interlocks Water	✓
Flow Protection Water	✓
Temperature Alarm	✓

<b>ADD-ONS</b>	
Rotary	Optional
Fume Extractor	Optional

<b>WARRANTY &amp; SUPPORT</b>	
2 Year	Included ( <a href="http://www.aeonlaser.us/warranty">www.aeonlaser.us/warranty</a> )
4 Year	Optional



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[WWW.AEONLASER.US](http://WWW.AEONLASER.US)