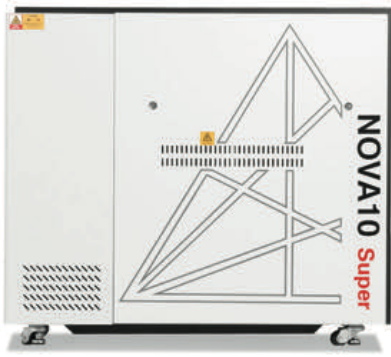


# NOVA *Super*/Elite

Industrial quality CO2 laser processing machine



# MAIN FEATURES



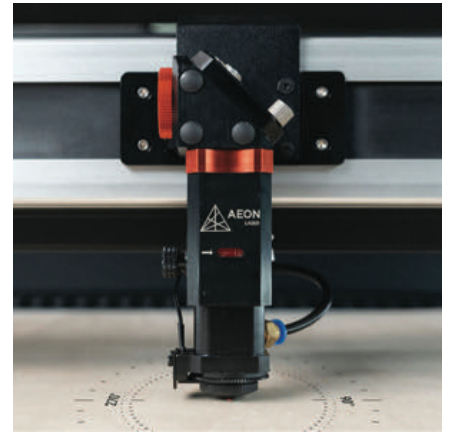
## ROBUST UNIBODY

The NOVA series frame is so robust, you can even remove the entire side panel for greater accessibility when troubleshooting.



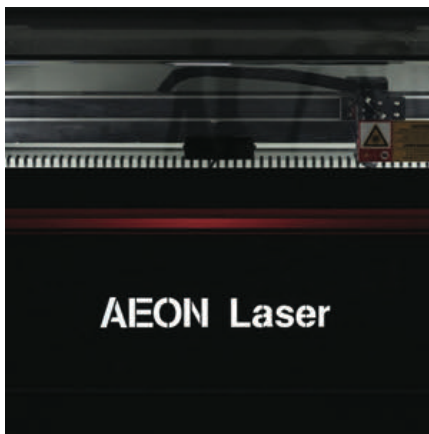
## ALL-IN-ONE-DESIGN

In the NOVA's Super Clean Pack design, not only are the linear rails and bearing blocks enclosed, but protective curtains on prevent unwanted particles from spreading beyond your work area.



## INTEGRATED AUTOFOCUS

Say goodbye to collisions and gouged material. The Aeon Redline Series has a newly designed laser head with integrated autofocus.



## WORK STATUS LIGHT

Aeon is renowned for its stylish and sleek appearance. Aeon Laser logo on the front access door panel is now backlit and doubles as a functional work status light.



## LARGE CONTROL DISPLAY

NOVA Keypad brings commonly used functions right to the surface, for reduced setup times and overall ease of use. You can even monitor water temperature, amperage, air pressure, and the temperature of your optics right from the vibrant 5" LCD display



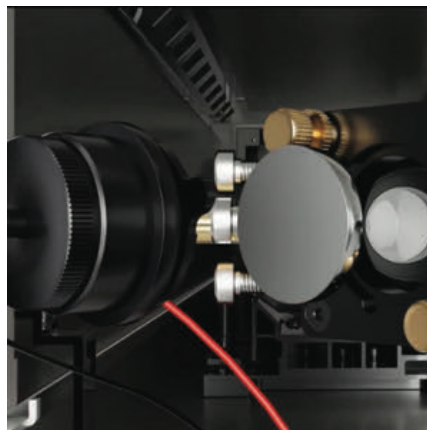
## UP TO 8G ACCELERATION

NOVA Super models are configured with full AC Servo Motors. Acceleration is nearly instant at 8G of force with top speeds of 4,200 mm/sec.



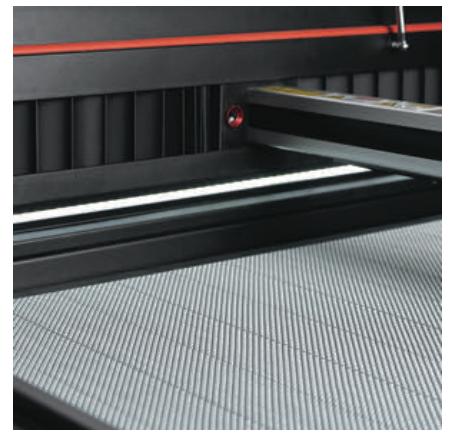
## TOOLLESS MAINTENANCE: LENS

The lens cartridges on NOVA Super models are now magnetic and the focal lens itself is press fit with a silicone washer, for easy access.



## TOOLLESS MAINTENANCE: MIRRORS

All mirrors are now easily accessible and can be cleaned or replaced without the use of any tools or having to recalibrate.



## SAFE GUARDED OPTICS

To further reduce the need for maintenance, all optics are now fully removed from the work area, taking the Clean Pack Design to its highest potential.

# MAXIMUM EFFICIENCY FOR YOUR BUSINESS

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## Why chose Aeon Nova ?

Because they are super-fast beasts – Nova Super can achieve 4200 mm/s engraving speed with a high-quality RF tube and AC Servo Motors.

Because they are large and packed with the newest technology – intelligent diagnostic system, clean pack design, and align-free solutions.

Because they are reliable - trusted by tens of thousands of clients, with global service and support!

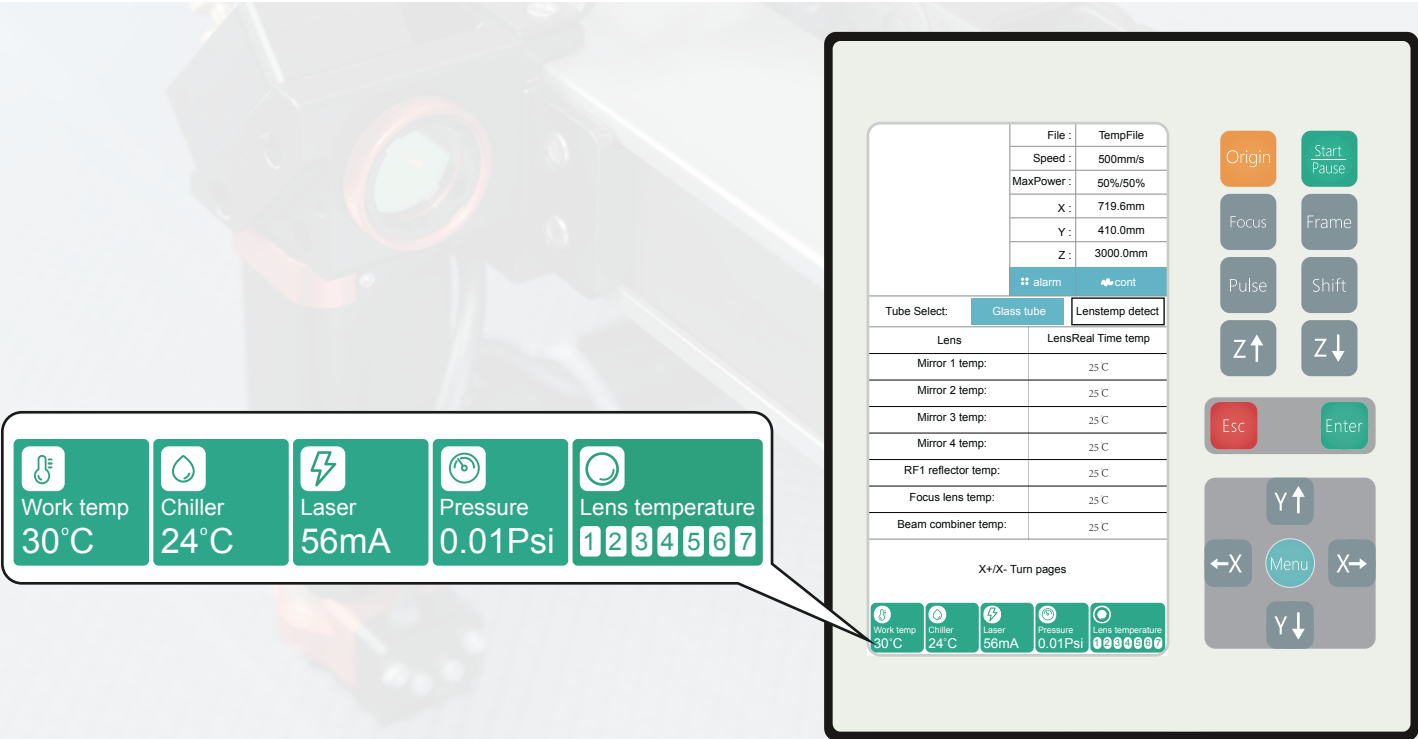
All of this enables you to work quickly and stay reliable for your clients. A perfect solution for artists, creative businesses, DIY makers, and schools.



# INNOVATIVE DESIGN

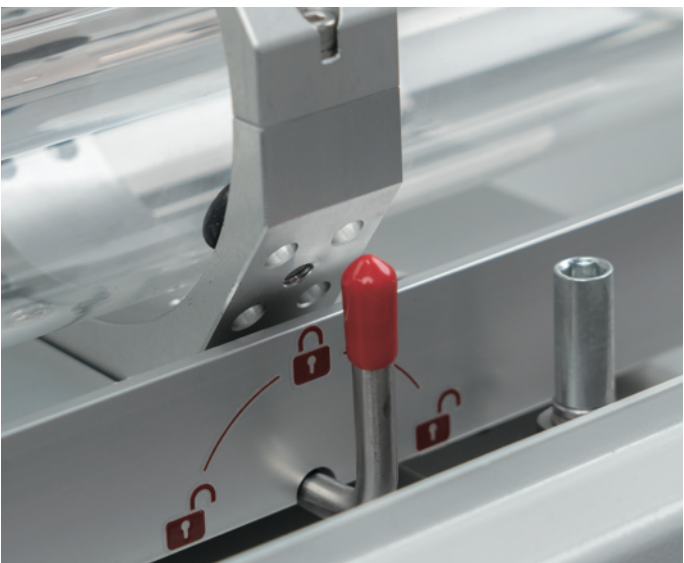
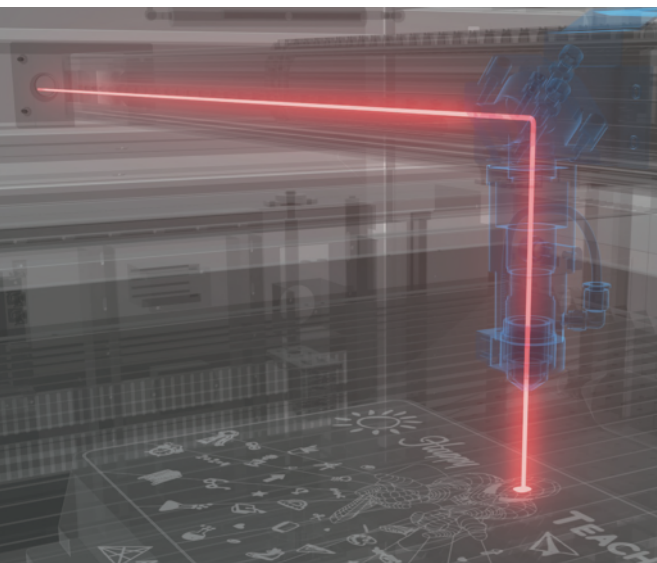
## Intelligent Detection and Diagnosis System

Different parameters that are crucial for seamless work are now clearly visible and signaled on the screen panel.

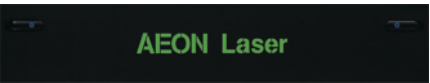


## Alignment-Free Optical Path Design

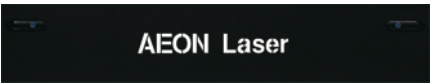
Fast and easy replacement of all optical accessories (glass tube, mirrors, and lens) without the need for constant alignments of the optical path - a comfortable solution unique for Aeon Lasers.



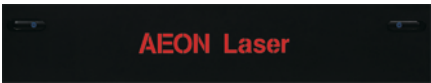
## Indicator lights



Running



Idle



Failure/Pause



# MULTIPLE CHOICE OPTIONS

## Servos and RF sources or Steppers and DC tubes

Nova can be equipped with both high-quality glass tubes that ensure fast and deep cutting and with an RF tube for super-fine engraving (maximum speed up to 4200mm/s with 8G acceleration).

Nova Super comes with fast AC servo motors as standard and can be configured with RF source for best performance. Nova Elite comes with hybrid step motors and DC laser source as standard.



**NOVA *Super***

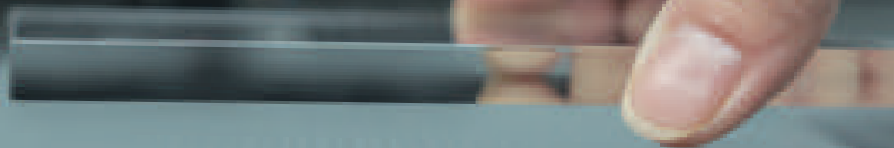


**NOVA Elite**



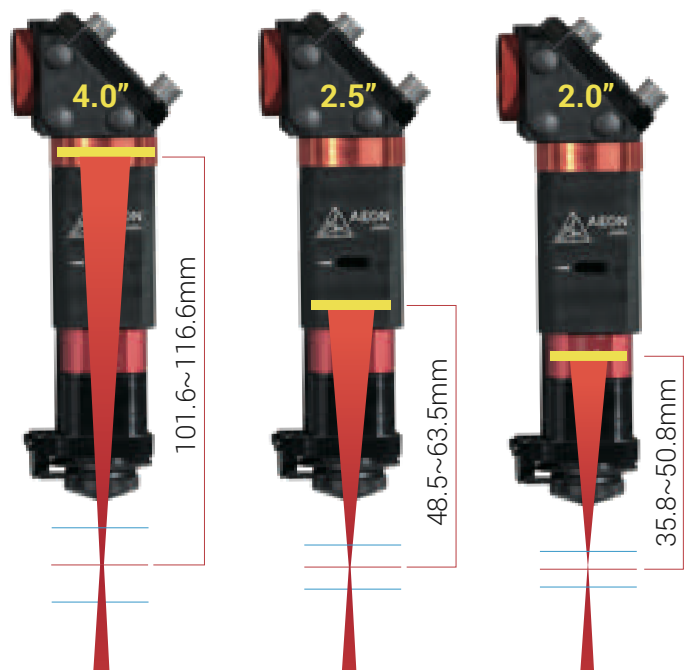
## Anything you need for laser cutting and engraving

Easily cope with a wide range of materials, smooth cutting edge and better quality output.



## Various Focal Lengths Adaptation

Nova series offers multiple lenses that could bring more benefit to improve specific applications. 2-inch, 2.5-inch, 4-inch, these lenses are all commonly used with laser systems.



# COMPONENTS

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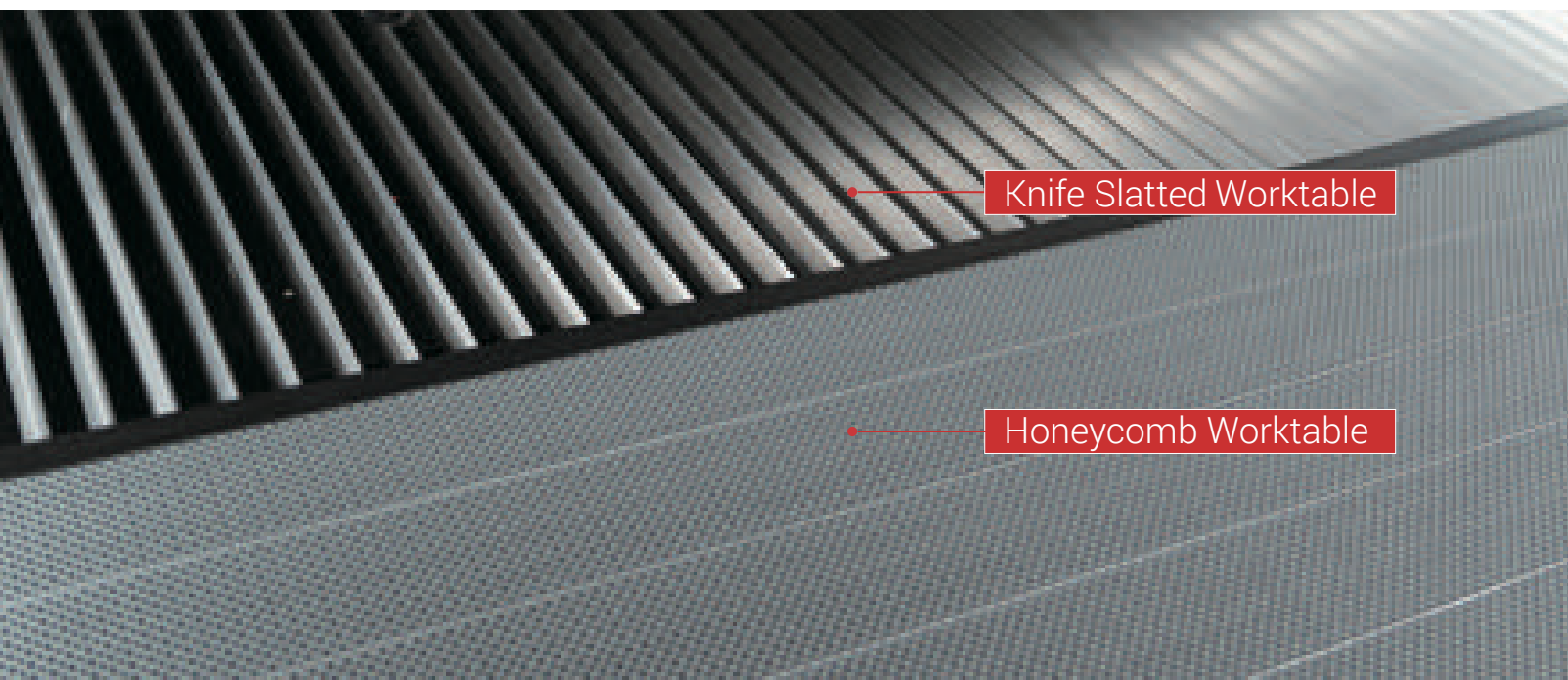
## Scrap Drawer

All of your cut pieces now fall into a conveniently located compartment below.



## Flexible replacement of worktable

Aluminum Knife Slatted and honeycomb worktable, specialized for laser cutting and engraving.

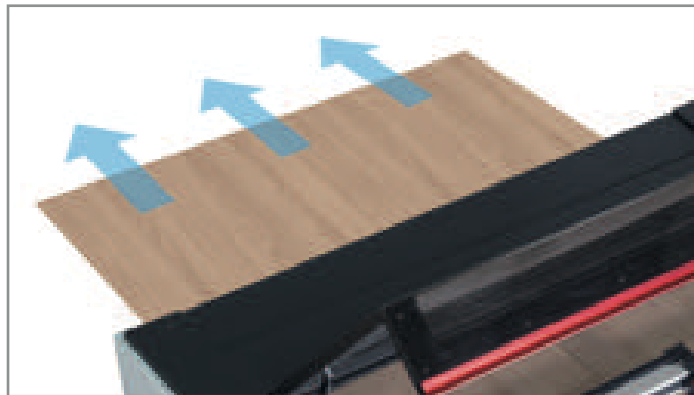


Knife Slatted Worktable

Honeycomb Worktable

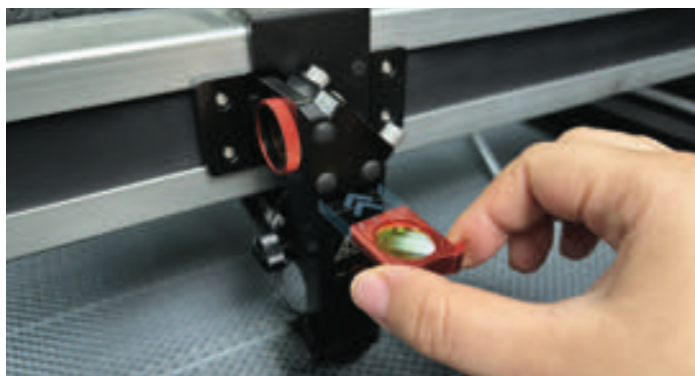
## Material Pass-through Door

Easily work even on bigger pieces!



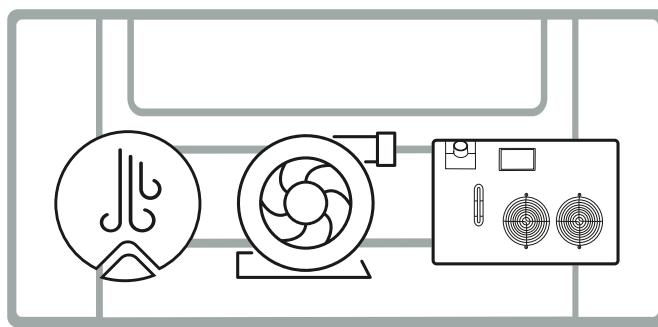
## Magnetic design

Effortless Lens Snap-On, Snap-Off!



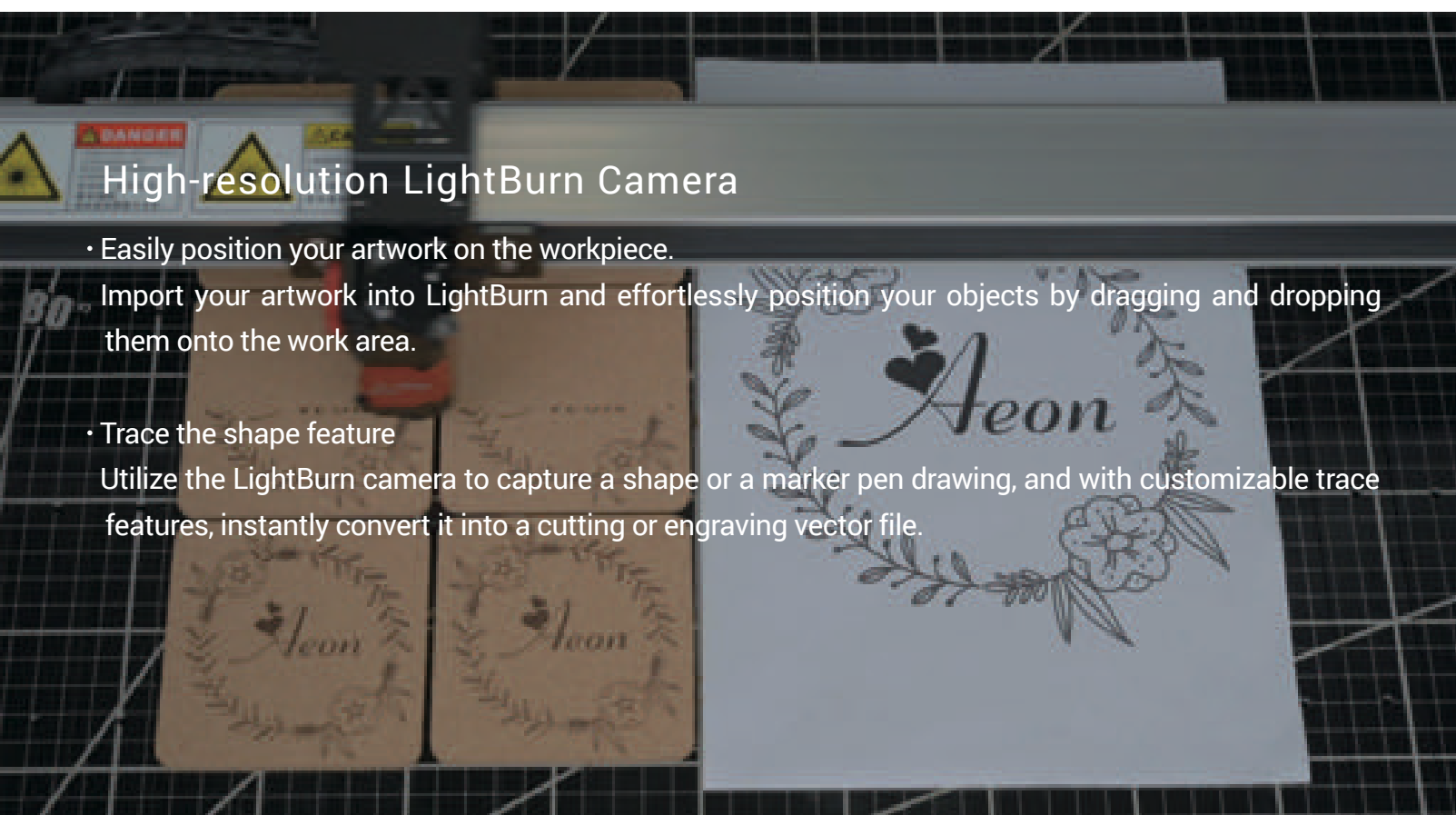
## All in one design

All the external accessories(air compressor/chiller/air blower) are built-in.



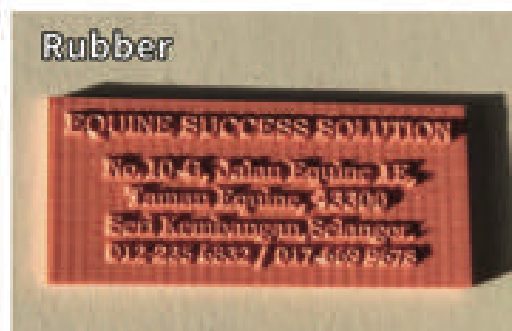
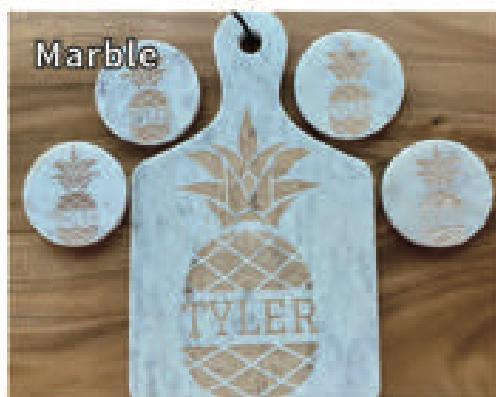
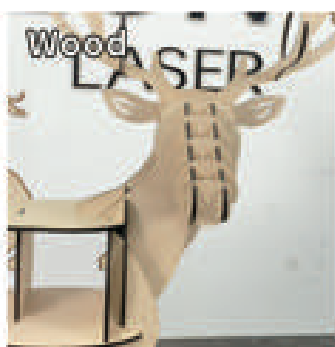
## High-resolution LightBurn Camera

- Easily position your artwork on the workpiece.  
Import your artwork into LightBurn and effortlessly position your objects by dragging and dropping them onto the work area.
- Trace the shape feature  
Utilize the LightBurn camera to capture a shape or a marker pen drawing, and with customizable trace features, instantly convert it into a cutting or engraving vector file.



# APPLICATION

Material		Engrave	Cutting
Composite Materials	Label film		●
	Brick tile	●	
	Carbon fiber/Fiberglass		●
	Ceramic	●	
	Foam board	●	●
Natural organic materials	Jewel		
	Abalone Shell		●
	Stone	●	
	Glass	●	
Natural organic materials	Leather		●
	Wood	●	●
Rubber	Silicone	●	●
Foam	EVA/Silicones	●	●
	Ceramic/Metal	●	
Paper base material		●	●
Plastic	PMMA/Acrylic	●	●
	ABS	●	●
	PDMS	●	●
	PEEK	●	●
	PLA	●	●
	PET		●
	POM		●
	PC/PA/PE/PP		●





# WHICH ONE SUITS YOU

NOVA Super 16 / Elite 16(1600mm*1000mm)
NOVA Super 14 / Elite 14(1400mm*900mm)
NOVA Super 10 / Elite 10 (1000mm*700mm)
Working area (mm)

Parameters	Model	Nova10 Super/Elite	Nova14 Super/Elite	Nova16 Super/Elite
Working Scope	Working Area (mm)	1000*700mm	1400*900mm	1600*1000mm
	Z Axis Lifting Space	200mm	200mm	200mm
	Max Lifting Capacity	120KG	120KG	120KG
Laser Tube	Laser Tube Power	Glass: 90W/100W RF: 30W/60W/80W/120W/150W	Glass: 90W/100W/130W RF: 30W/60W/80W/120W/150W	Glass: 90W/100W/130W/150W RF: 30W/60W/80W/120W/150W
Motion system	Max Engraving Speed	4000mm/s (Super) 1200mm/s (Elite)	4200mm/s (Super) 1200mm/s (Elite)	4200mm/s (Super) 1200mm/s (Elite)
	Acceleration	8G (Super) 5G (Elite)	8G (Super) 5G (Elite)	8G (Super) 5G (Elite)
	Motor	AC Servos (Super) DC Steepers (Elite)	AC Servos (Super) DC Steepers (Elite)	AC Servos (Super) DC Steepers (Elite)
Accuracy	Minimum Font Size(RF Tube)	1.0x1.0mm	1.0x1.0mm	1.0x1.0mm
	Positioning Accuracy	<=0.1mm	<=0.1mm	<=0.1mm
Configuration	Working Table	Honeycomb + Blade table	Honeycomb + Blade table	Honeycomb + Blade table
	Cooling system	Glass: Built-in 5000 chiller RF: Air-cooled	Glass: Built-in 5000 chiller RF: Air-cooled	Glass: Built-in 5000 chiller RF: Air-cooled
	Fume Exhaust Fan	Built-in 500W (Auto Start-stop)	Built-in 500W (Auto Start-stop)	Built-in 500W (Auto Start-stop)
	Air Assist	Built-in compressor 750W with 24L air tank (Auto Start-stop)	Built-in compressor 750W with 40L air tank (Auto Start-stop)	Built-in compressor 750W with 40L air tank (Auto Start-stop)
	XY axis fully dust-proof	√	√	√
	Auto Focus	√	√	√
	Wireless Connectivity	√	√	√
	Red Dot Positioning	√	√	√
	Material Pass Through Door	√	√	√
	Camera	100° 8 megapixel (3840x2160)	100° 8 megapixel (3840x2160)	100° 8 megapixel (3840x2160)
	Toolless optical system	√	√	√
	Internal Memory	1G	1G	1G
System	Smart Panel (monitoring function)	√	√	√
	Fault alarm and diagnosis	√	√	√
	Operation status light	√	√	√
	Water Flow Protection	√	√	√
	Water Temperature Alarm	√	√	√
	Operating Software	Rdworks/Lighburn(Optional)	Rdworks/Lighburn(Optional)	Rdworks/Lighburn(Optional)
	Compatible Design Software	CorelDraw/Illustrator/AutoCAD	CorelDraw/Illustrator/AutoCAD	CorelDraw/Illustrator/AutoCAD
Safety	Laser Class	Class 1 laser product	Class 1 laser product	Class 1 laser product
	Cover lid interlock	√	√	√
	Side panel lid interlock	√	√	√
	Key lock	√	√	√
Package	Machine Dimension(mm)	1500*1210*1125	1900*1410*1125	2100*1510*1125
	Net Weight (KG)	415KG	560KG	566KG
	Gross Weight(KG)	532KG	683KG	730KG
Optionals	Rotary Clamp/ Lightburn Software /Air Purifier			



# LASERMEISTER

LASERMEISTER OÜ / LASERMESTARI OY  
AEON laser official distributor

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