AEON
LASER USA

REDLINE SERIES

Why Redline?

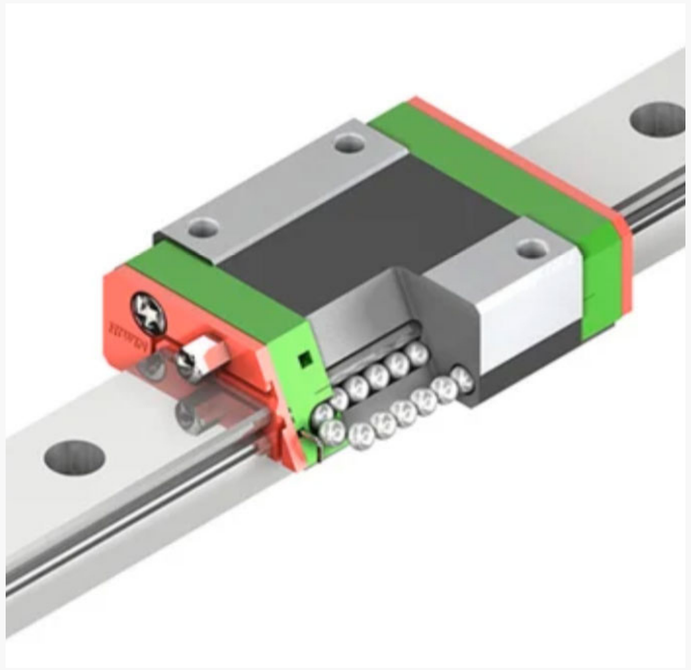
The Aeon Redline Series is designed to maximize profits with its primary focus on increasing efficiency, versatility and ease of use, while simultaneously reducing downtime and overall maintenance.

REDLINE

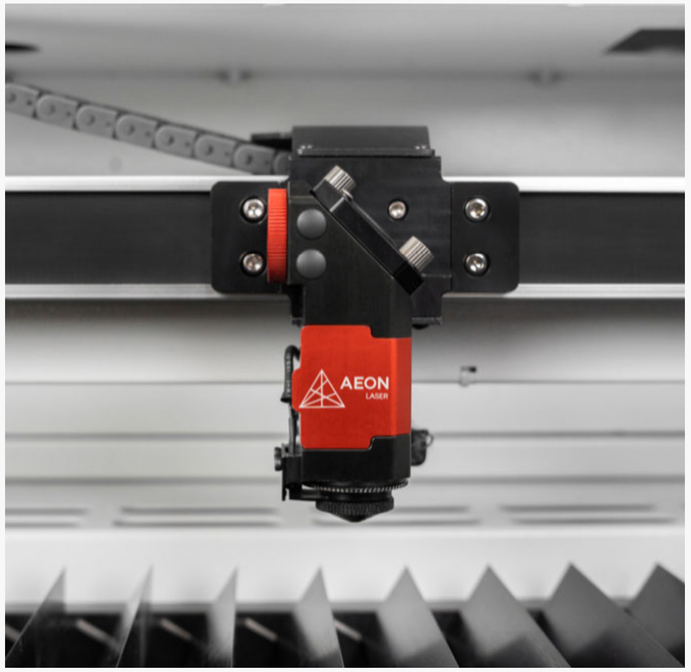
NOUN. RED·LINE 'RED-'LĪN. : A RECOMMENDED SAFETY LIMIT : THE FASTEST, FARTHEST, OR HIGHEST POINT OR DEGREE CONSIDERED SAFE AND RELIABLE.

EFFICIENT

Full AC Servo Motors make acceleration nearly instant at 8G of force with top speeds of 4,200 mm/sec on all RF models.



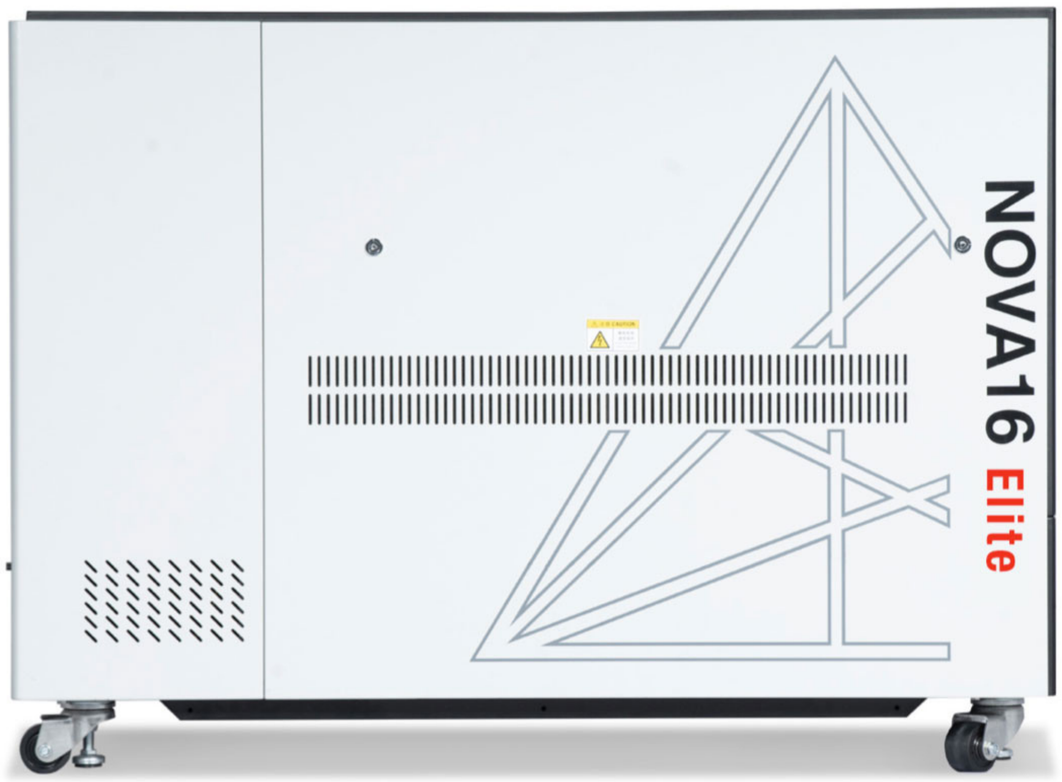
Linear guide rails with ball bearings offer greater precision and smoother motion, which improves print quality and longevity.

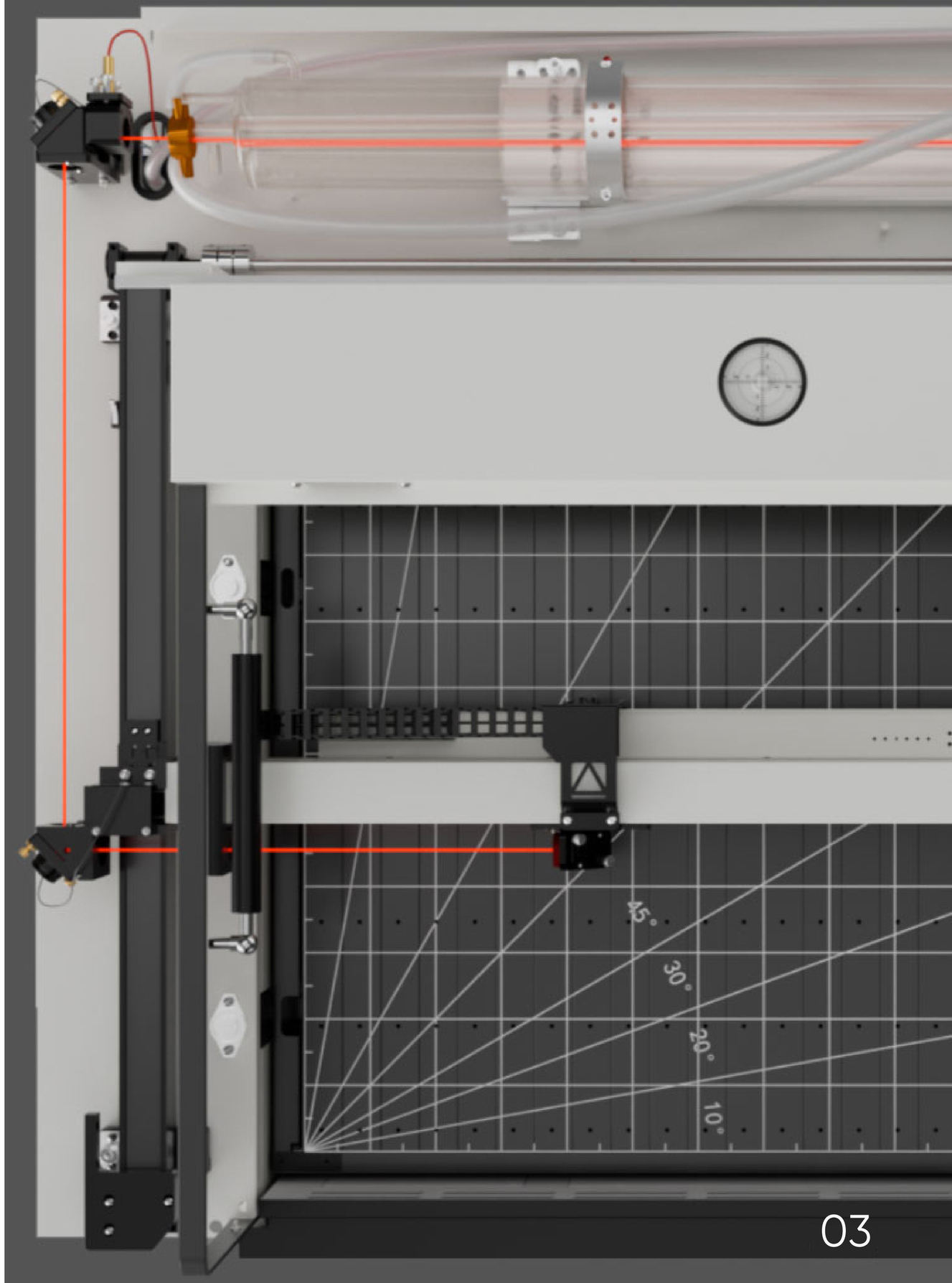


A lightweight laser head completes the trifecta by contributing to less over-scanning and an overall reduction in vibration.

ROBUST

Most lasers employ a unibody structure where the components are bolted to a thin outer shell. However, if you have the need for speed, it’s of utmost importance to make the frame as rigid as possible to stop the machine from flexing. The Redline series frame is so robust, you can even remove the entire side panel for greater accessibility when troubleshooting.





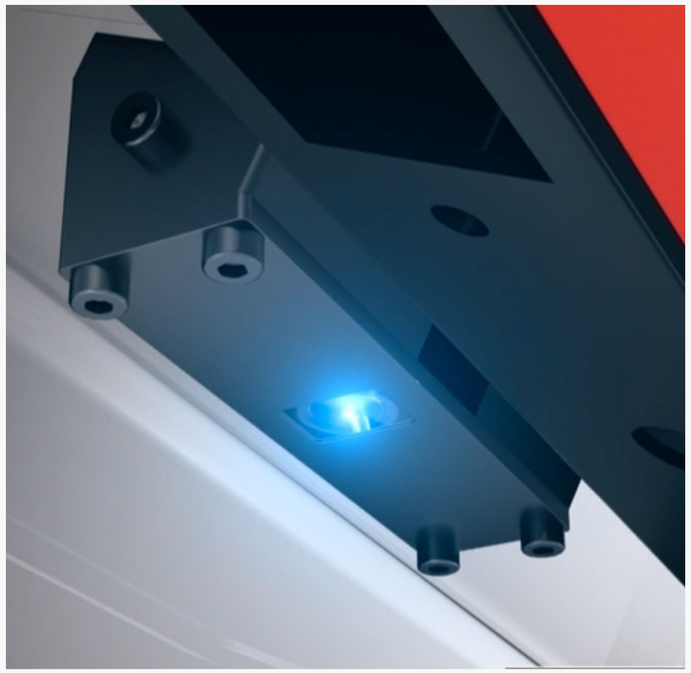
The MIRA series now joins the NOVAs with its Super Clean Pack design. Not only are the linear rails and bearing blocks enclosed, but protective curtains on the left and right-side rails now prevent unwanted particles from spreading beyond your work area. Centrifugal fans have been replaced by quieter and easier to clean inline fans, and the design team was finally able to include a passthrough in all MIRA models!

COMPACT

ALL-IN-ONE DESIGN

The NOVA and SuperNOVA have been redesigned with the control cabinet in the rear and a dedicated compartment for the optional RF laser tube. The DC Glass laser tube returns to the top position and all models come equipped with a built in air compressor and air tank beneath the bed.

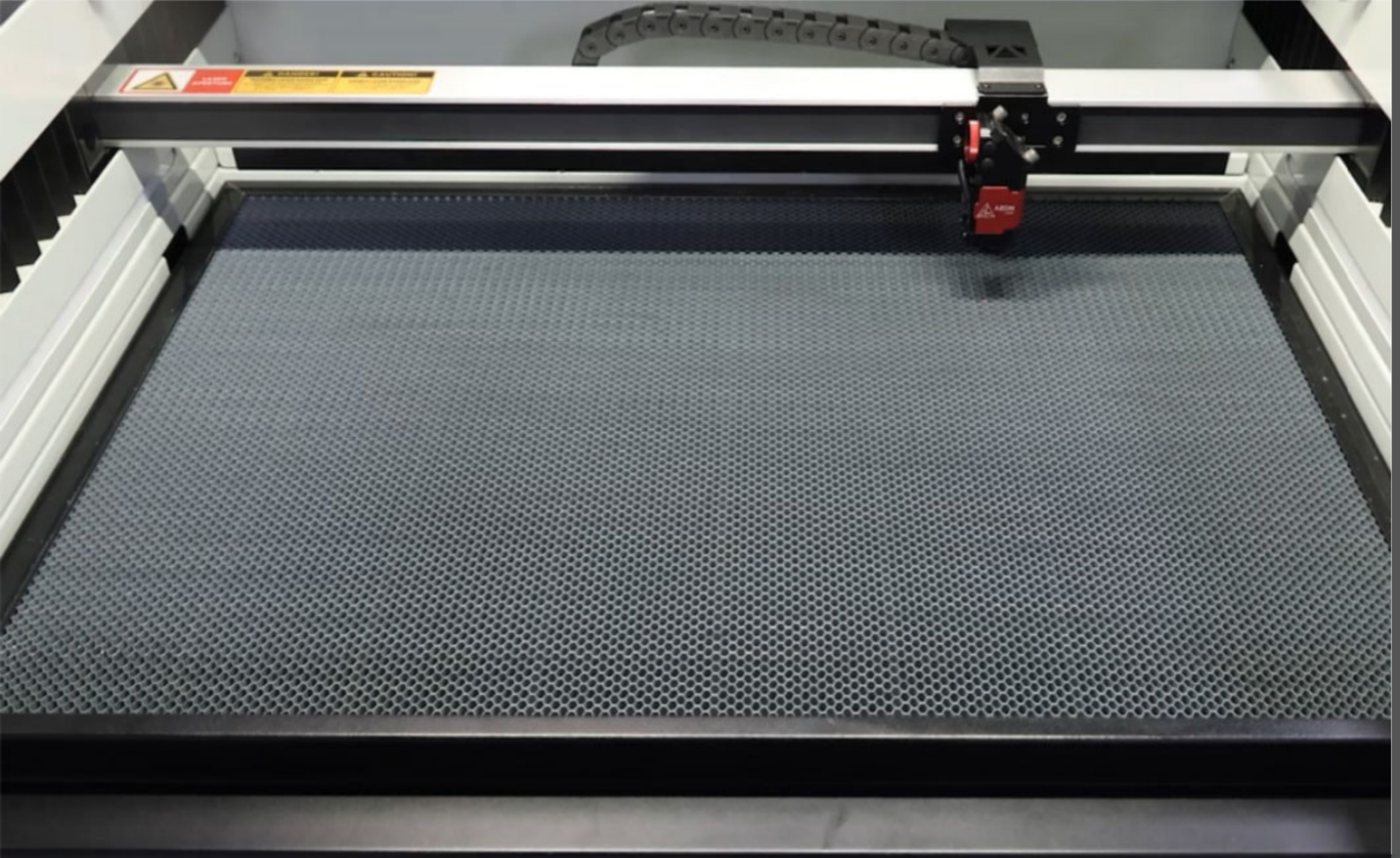
COMPREHENSIVE



All Aeon lasers are now equipped with built-in high-resolution cameras for precise positioning and monitoring.

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

Ensuring your laser is level can now be done at a glance. Both MIRAs and NOVAs are fitted with Bullseye Leveling Gauges.

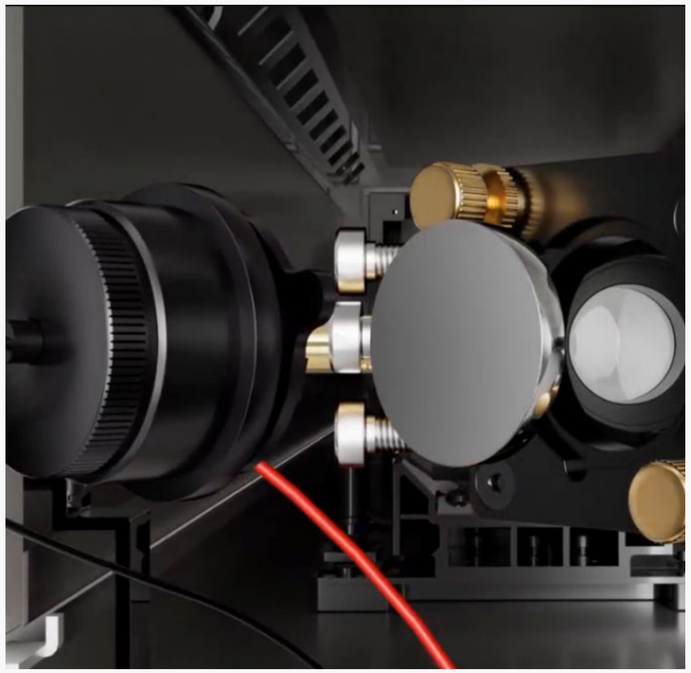


Aeon is renowned for its stylish and sleek appearance. The Aeon Laser logo on the front access door panel is now backlit and doubles as a functional Status Light, illuminating white when in standby, red when an error is encountered, and green while in operation, adding both form and function to an already stunning design.

BRILLIANT

The already well-lit work area just got brighter with the addition of 2 more LED lights on the underside of the MIRA lid, just behind the handle. When the lid is opened, the 2 interior LEDs turn off and the overhead lights turn on to illuminate your work area, while loading material and using the camera. There is even a dimmer knob on the side of the machine for setting the mood just right.

TOOLLESS



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

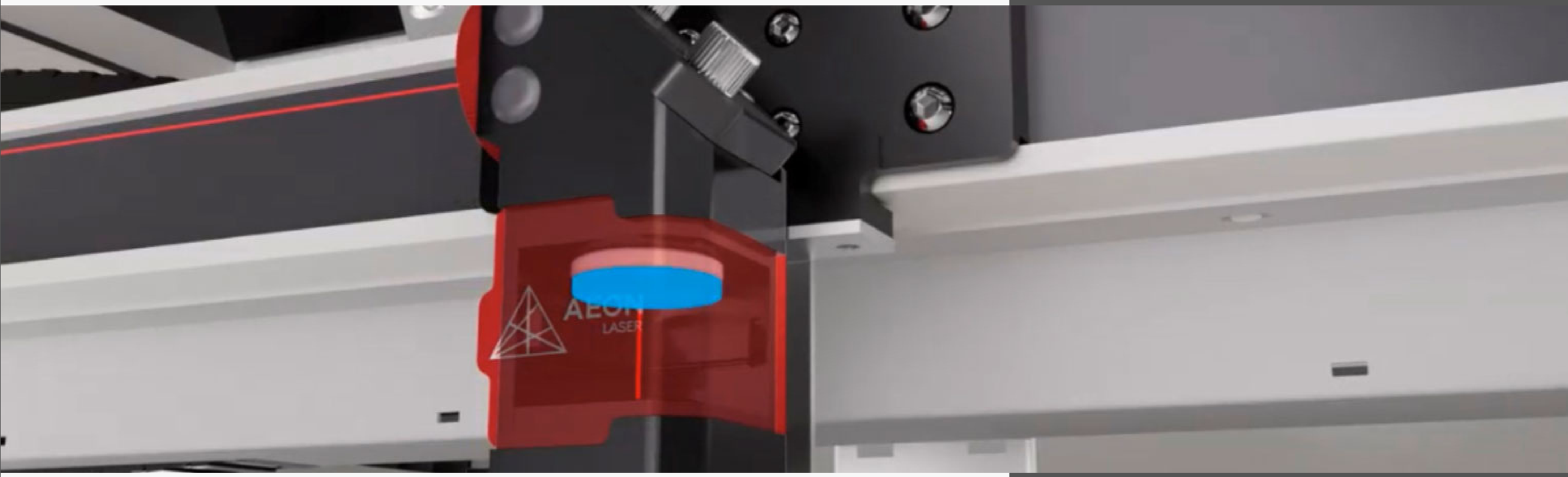
The modular laser tube docking station allows for instant tube replacements free from tools, all while maintaining the beam path.

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

INTUITIVE

The most recent revision to the NOVA Keypad now makes its way to the MIRA Redline Series, which brings commonly used functions right to the surface, for reduced setup times and overall ease of use. You can even monitor water temperature, amperage (mA), air pressure (psi), and the temperature of your optics right from the vibrant 5" LCD display, for the ultimate user experience.

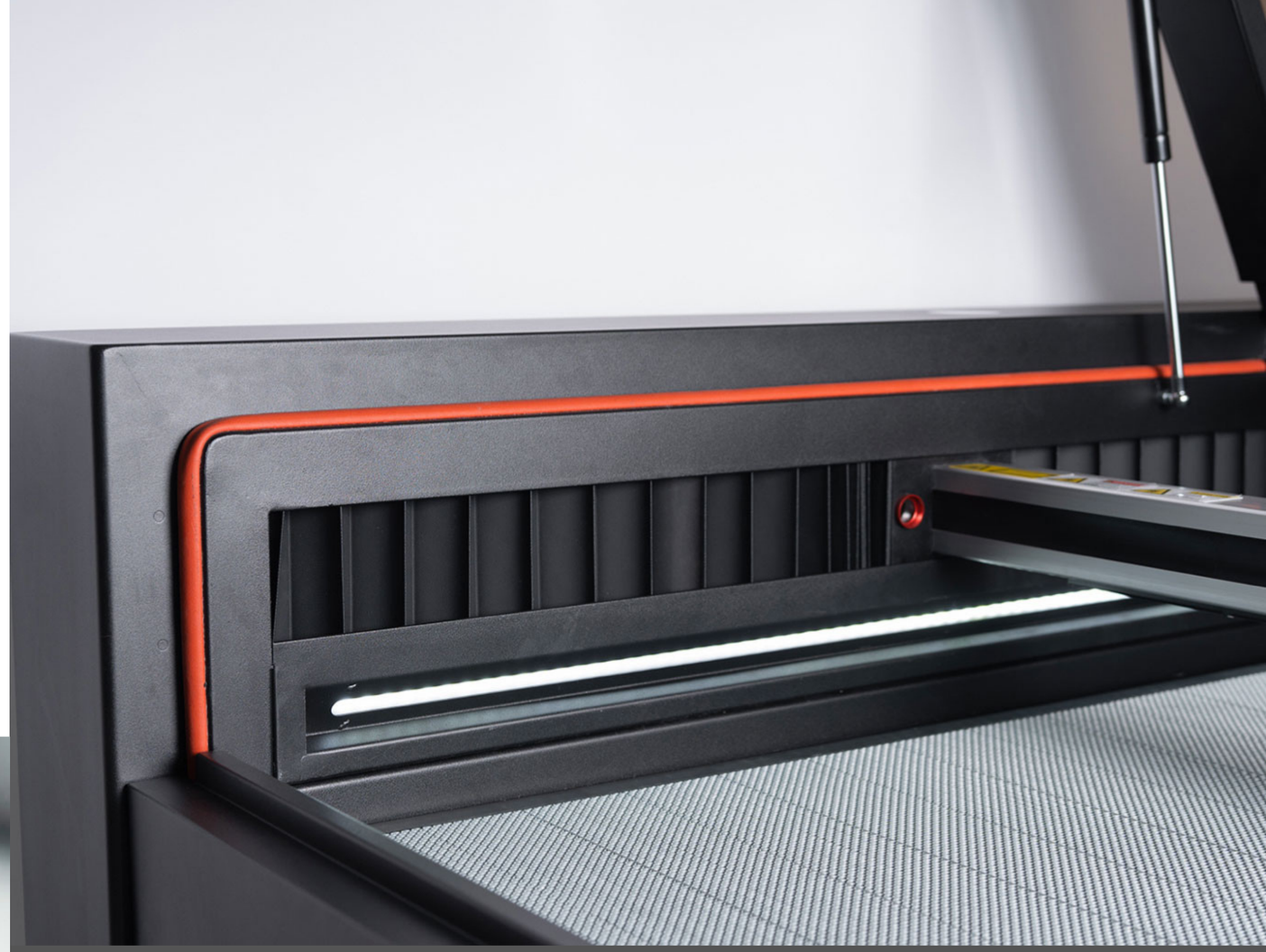
PROACTIVE



SMART MONITORING

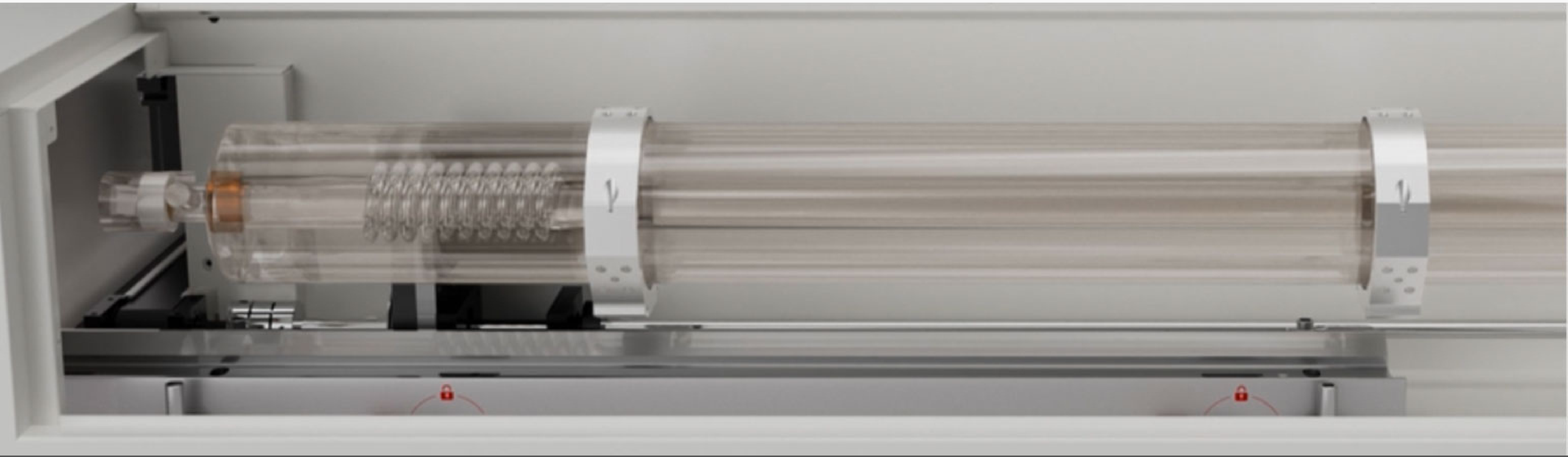
All optics are now fitted with thermal sensors to record and report temperature readings to the keypad, thus eliminating the likelihood of unexpected failures. This proactive approach not only saves you from costly mistakes and downtime, it also reduces the need for frequent unwarranted cleaning. To top it off, the controller now records these readings along with ambient temperature, laser tube runtime and machine parameters, to serve as a diagnostic log in the event troubleshooting is needed.

SAFE-GUARDED



To further reduce the need for maintenance, all optics are now fully removed from the work area, taking the Cleanpack Design to it’s highest potential. With the laser head sealed to where no dust or debris can enter, all that remains are a series of cost effective windows, which are far easier to maintain and replace if needed.

VERSATILE



MODULAR LASER TUBE DOCKING STATION

Say goodbye to painstaking tube replacements. This innovative approach allows for swapping of tubes in and out of your Aeon laser, without having to renegotiate the beam path. This means it is now feasible to keep a spare tube on the shelf or quickly swap between higher or lower wattage tubes as needed. Furthermore, the stage is now set to allow switching between various wavelengths on all models, such as 1064nm Fiber lasers. This opens up a whole new world of possibilities by vastly increasing the range of materials one can process while delivering results of the utmost quality.

ABOVE+
BEYOND

REDLINE SERIES

The Aeon Laser Redline Series is a true marvel of engineering and has redefined the laser as we know it. From turning your craft into cash, to breaking through the ceiling of your thriving business. It's as beautiful to look at as it is to use, and it’s ready to take you above and beyond.

Model	**MIRA5S** (Starts at $6995*)	**MIRA7S** (Starts at $8995*)	**MIRA9S** (Starts at $11995*)
Working Area	11-3/4" x 19-3/4" (300*500mm)	17-3/4" x 27-1/2" (500*700mm)	23-5/8" x 35-1/2" (600*900mm)
Max Bed Travel	5-1/2” (140mm)	5-1/2” (140mm)	5-7/8” (150mm)
DC Glass Tube	45W	60W	100W
RF Metal Tube	30W/60W	30W/60W	30W/60W
RF Ceramic Tube	NA	60W	60W/100W/150W
Motors	High Speed DC Steppers AC Servos (RF Metal)	High Speed DC Steppers AC Servos (RF Metal) DC Servos (Signature)	High Speed DC Steppers AC Servos (RF Metal) DC Servos (Signature)
Guide Rails	Hiwin Linear Rails	Hiwin Linear Rails THK Linear Rails (Signature)	Hiwin Linear Rails THK Linear Rails (Signature)
Max Acceleration	5G (DC)/8G (RF)	5G (DC)/8G (RF)	5G (DC)/8G (RF)
Max Speed	1200mm/s (DC Glass) 3500mm/s (RF Metal)	1200mm/s (DC Glass) 3500mm/s (RF Metal) 5000mm/s (Signature)	1200mm/s (DC Glass) 3500mm/s (RF Metal) 5000mm/s (Signature)

***Details and pricing are subject to change. Please refer to www.aeonlaser.us for the most current information.**

Model	**NOVA10S** (Starts at $14995*)	**NOVA14S** (Starts at $17995*)	**NOVA16S** (Starts at $20995*)
Working Area	27-9/16" x 39-3/8" (700*1000mm)	35-7/16" x 55-1/8" (900*1400mm)	39-3/8" x 63" (1000*1600mm)
Max Bed Travel	7-7/8” (200mm)	7-7/8” (200mm)	7-7/8” (200mm)
DC Glass Tube	100W	100W/130W	100W/130W/150W
RF Metal Tube	30W/60W (Super)	30W/60W (Super)	30W/60W (Super)
RF Ceramic Tube	60W/100W/150W	60W/100W/150W	60W/100W/150W
Motors	High Speed DC Steppers AC Servos (RF Metal) DC Servos (Signature)	High Speed DC Steppers AC Servos (RF Metal) DC Servos (Signature)	High Speed DC Steppers AC Servos (RF Metal) DC Servos (Signature)
Guide Rails	Hiwin Linear Rails THK Linear Rails (Signature)	Hiwin Linear Rails THK Linear Rails (Signature)	Hiwin Linear Rails THK Linear Rails (Signature)
Max Acceleration	5G (DC)/8G (RF)	5G (DC)/8G (RF)	5G (DC)/8G (RF)
Max Speed	1200mm/s (DC Glass) 4200mm/s (RF Metal) 5000mm/s (Signature)	1200mm/s (DC Glass) 4200mm/s (RF Metal) 5000mm/s (Signature)	1200mm/s (DC Glass) 4200mm/s (RF Metal) 5000mm/s (Signature)

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