

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.



Model	MIRA5S	MIRA7S	MIRA9S
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Size	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)
	Machine Dimensions	36-3/8" x 27-1/2" x 16-3/8" (925*700*415mm)	45-1/4" x 37-5/8" x 20-1/4" (1150*955*515mm)	64" x 42-1/2" x 20-5/8" (1625*1080*525mm) Includes 12" (300mm) Tube Extension
	Machine Weight	220lbs (100kg)	396lbs (180kg)	551lbs (250kg)

Laser Source	DC Glass Tube	45W	60W	100W
	RF Metal Tube	30W/60W	30W/60W	30W/60W
	RF Ceramic Tube	NA	60W	60W/100W/150W
	CO2 Glass Cooling Method	Water	Water	Water
	RF Metal Cooling Method	Air	Air	Air
	RF Ceramic Cooling Method	N/A	Water	Water

Performance	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)
	Minimum Font Size	1.0 x 1.0mm	1.0 x 1.0mm	1.0 x 1.0mm
	Positioning Accuracy	<=0.01mm	<=0.01mm	<=0.01mm
	Max Scanning Precision	1000 DPI	1000 DPI	1000 DPI
	Max Lifting Capacity	44lbs (20kg)	55lbs (25kg)	55lbs (25kg)

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Configuration	Water Chiller	Built-in S&A 3000 Fan Cooled Chiller	Built-in S&A 3000 Fan Cooled Chiller	Built-in S&A 5000 Vapor Compression Chiller
	Fume Exhaust Fan	Built-in 75W, 4" Dia. Axial Inline Fan	Built-in 110W, 6" Dia. Axial Inline Fan	Built-in 110W, 6" Dia. Axial Inline Fan
	Air Assist	Built-in 85w Air Pump	Built-in 85w Air Pump	Built-in 85w Air Pump
	Clean Pack Design	X and Y Axis	X and Y Axis	X and Y Axis
	Autofocus	Integrated	Integrated	Integrated
	Wifi Data Transfer	✓	✓	✓
	Red Dot Positioning	✓	✓	✓
	Material Pass Through Door	✓	✓	✓
	Bullseye Leveling Guage	✓	✓	✓
	Dimmable Overhead Lighting	×	✓	✓
	Smart Air Solenoid Valve	✓	✓	✓
	Modular Laser Tube Docking	✓	✓	✓
Lid Material	Polycarbonate	Polycarbonate	Polycarbonate	

Table	Downdraft	×	×	×
	Blade Table	✓	✓	✓
	Honeycomb Table	✓	✓	✓
	Material Collection Tray	×	×	×

Control & Software	Control Panel	5" Keypad & LCD display	5" Keypad & LCD display	5" Keypad & LCD display
	Memory Capacity	1GB	1GB	1GB
	Lightburn Software	✓	✓	✓
	Compatible Software	CorelDraw, Photoshop, AutoCAD, InkScape, or any software that can export into the supported file formats	CorelDraw, Photoshop, AutoCAD, InkScape, or any software that can export into the supported file formats	CorelDraw, Photoshop, AutoCAD, InkScape, or any software that can export into the supported file formats
	Operating System	Windows & Mac	Windows & Mac	Windows & Mac
	Supported File Formats	AI/PDF/DXF/PLT/SVG/DXF/SC/BMP/JPEG/JPG/PNG/GIF/TIFF/TIF/TGA	AI/PDF/DXF/PLT/SVG/DXF/SC/BMP/JPEG/JPG/PNG/GIF/TIFF/TIF/TGA	AI/PDF/DXF/PLT/SVG/DXF/SC/BMP/JPEG/JPG/PNG/GIF/TIFF/TIF/TGA

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Optics	Toolless Mirror Change	✓	✓	✓
	Magnetic Lens Cartridge	✓	✓	✓
	Isolated Optics	✓	✓	✓
	1.5" Lens	Optional	Optional	Optional
	2" Lens	Standard	Standard	Standard
	2.5" Lens	Optional	Optional	Optional
	4" Lens	Optional	Optional	Optional
	Mirror Sizes	φ25mm (x3)	φ25mm (x3)	φ25mm (x3)
	Beam Combiner	φ25mm	φ25mm	φ25mm
	Protective Window	φ20mm	φ20mm	φ20mm

Safety	Safety Level	Class 1	Class 1	Class 1
	Smart Monitoring	✓	✓	✓
	Optics Temperature Alarm	✓	✓	✓
	Diagnostic Log	✓	✓	✓
	Fire Supression	Optional	Optional	Optional
	LED Status Light	✓	✓	✓
	Lid Interlock	✓	✓	✓
	Side Panel Interlocks	✓	✓	✓
	Water Flow Protection	✓	✓	✓
	Water Temperature Alarm	✓	✓	✓

Power	Voltage/Frequency	110v/60Hz	110v/60Hz	110v/60Hz
	Amperage	15A Dedicated Circuit	15A Dedicated Circuit	20A Dedicated Circuit
	Rated Power Draw	500W (max wattage laser tube)	500W (max wattage laser tube)	1400W (max wattage laser tube)

Package	Package Size	39-3/8" x 31-1/2" x 22-7/8" (1000*800*580mm)	49" x 43" x 29" (1250*1110*740mm)	69" x 46-1/2" x 29-1/2" (1750*1180*750mm) Includes 12" (300mm) Tube Extension
	Packed Gross Weight (G.W)	291lbs (132kg)	474lbs (215kg)	637lbs (289kg)

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Add-Ons	Camera	✓	✓	✓
	Stand	Optional	Optional	Optional
	Smart Rotary	Optional	Optional	Optional
	Multi Roller	Optional	Optional	Optional
	Rotary Chuck	Optional	Optional	Optional
	PiBurn or Rotoboss	Optional	Optional	Optional
	Filtered Fume Extractor	Optional	Optional	Optional
	Wireless Remote Control	Optional	Optional	Optional
	Air Compressor	Optional	Optional	Optional

Warranty	2 Year	✓	✓	✓
	3 Year	Optional	Optional	Optional
	4 Year	Optional	Optional	Optional

Pricing	Customize your laser			
		Starting at \$6995*	Starting at \$8995*	Starting at \$11995*

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