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AEON MIRA & NOVA CO_2 LASERS

Everything inside. Ready to cut.

Professional CO_2 laser cutters and engravers with the chiller, air assist and exhaust already built in.



MIRA 5



MIRA 7



NOVA 14

All-in-one

Water chiller, air pump and exhaust fan inside the cabinet. Nothing extra to buy.

Class 1 safe

Fully enclosed, interlocked body. TÜV Rheinland certified.

Local service

Delivery, installation and operator training included in Tbilisi.

THE DIFFERENCE

One machine you plug in, not five parts you assemble.

Many entry-level Chinese CO_2 lasers are a bare frame. You still have to buy and connect a chiller, an air pump and an exhaust, then align the optics yourself. AEON builds all of it into one enclosed, certified machine.

	TYPICAL BUDGET MACHINE	AEON
Cooling	Separate chiller or water bucket	Chiller built into the cabinet (glass-tube models)
Air assist and exhaust	External pump and fan to buy	Air pump and exhaust fan built in
Setup	Assemble, plumb, wire, test	Delivered, installed and taught by Geotech
Focus	Manual, with a gauge	Autofocus and red-dot positioning
Optics	Mirrors need re-aligning after service	Tool-free tube dock, no beam re-alignment (in S, Elite, Super models)
Safety	Often an open or basic cover	Class 1 enclosure with interlocks; MIRA 7S TÜV Rheinland certified
Support	Overseas seller, parts by post	Local team, training and support in Georgia

Clean Pack design

Sealed linear guides and a dust-proof XY axis. AEON states it cuts maintenance by up to 90%.

Fast servo motion

AC servo motors and a featherweight head: 8G and up to 4,200 mm/s on NOVA Super (RF tube), 5G and up to 2,000 mm/s on MIRA S.

Smart monitoring

Thermal sensors, status light and, on MIRA 7S/9S, a smart panel with fault diagnosis.

Built-in camera

LightBurn camera places artwork on the real material. Drag, drop, cut.

Pass-through door

Feed material longer than the bed. NOVA splits in two to fit through narrow doors.

Built to last

Unibody frame, sealed optical path and switches rated for 200,000+ cycles.

Comparison describes typical entry-level machines.

THE HONEST COMPARISON

Half the price on the quote. Not half the cost.

A bare Chinese CO_2 laser is priced for the frame and the tube. Everything a working shop needs comes later, from other suppliers, and the real bill grows. Here is what the lower price usually leaves out, and what AEON includes.

TYPICAL BUDGET MACHINE	AEON VIA GEOTECH
Extra boxes to buy Chiller, air compressor, exhaust blower and ducting are separate purchases from separate sellers.	**Extra boxes to buy** Chiller, air pump and exhaust fan are inside the cabinet. One machine, one power cable.
Setup risk You assemble, plumb, wire and align it yourself, and the risk is yours if something is wrong.	**Setup risk** Delivered, installed and commissioned in Tbilisi, with operator training on your machine.
Lost production days Mirrors drift and smoke clogs open guide rails. Every re-alignment stops your orders.	**Lost production days** Sealed Clean Pack guides and an alignment-free optical path. Tube and lens swap without tools.
Safety and compliance Often an open or basic cover without interlocks: a problem for insurers, schools and customers' premises.	**Safety and compliance** Class 1 enclosure with interlocked lid, key lock and water alarms. MIRA 7S is TÜV Rheinland certified.
Support when it matters Overseas seller, parts by post, nobody to call in your language.	**Support when it matters** Local team in Tbilisi: support in Georgian and Russian, spare parts, 1.5-year warranty.
Output per hour Basic drives, slower acceleration, manual focus and manual layout.	**Output per hour** Up to 5G (MIRA S) and 8G with AC servo (NOVA Super). Autofocus and camera layout cut set-up time.

COMPARE YOUR QUOTES · FILL IN

Item	Your quote	Geotech quote
Machine price		
Water chiller		Included
Air compressor / pump		Included
Exhaust fan and ducting		Included
Camera, autofocus, red dot		Included
Delivery and installation		Included in Tbilisi
Operator training		Included in Tbilisi
Spare parts and waiting time		Local support
Total cost		

Add up the extras, the delays and the risk. Then compare.

Comparison describes typical entry-level machines; individual offers vary. Chiller and air pump are built in on the models described in this catalog.

DESKTOP-CLASS PRODUCTION

MIRA: compact, complete, fast.

Three bed sizes with chiller, air assist, exhaust, camera and pass-through door built in. Pick glass tube for power and price, or RF tube for finer detail and speed.



MIRA 5

500 × 300 mm · signs, gifts, prototypes



MIRA 7

700 × 500 mm · small-batch production



MIRA 9

900 × 600 mm · large sheets, thick material

DATA SHEET · MIRA S (REDLINE)

	MIRA 5S	MIRA 7S	MIRA 9S
Working area	500 × 300 mm	700 × 500 mm	900 × 600 mm
Z-axis lift / load	140 mm / 15 kg	140 mm / 25 kg	150 mm / 25 kg
Glass tube	40 / 60 W	40 / 60 / 75 / 80 W	40 / 60 / 75 / 80 / 90 / 100 W
RF tube	30 / 60 W	30 / 60 W	30 / 60 W
Speed glass / RF	1,200 / 2,000 mm/s	1,200 / 2,000 mm/s	1,200 / 2,000 mm/s
Acceleration	5G	5G	5G
Chiller (glass tube)	Built-in 3000	Built-in 3000	Built-in 5000
Smart panel, diagnosis	No	Yes	Yes
Dimensions (mm)	900 × 700 × 410	1128 × 945 × 510	1328 × 1070 × 530
Net weight	110 kg	185 kg	225 kg

All: autofocus, red-dot positioning, camera, Wi-Fi, honeycomb + bar table, 220V, min. text 1.0 mm.

LASER POWER OPTIONS

Classic · glass tube

MIRA 5: 40 / 60 W
MIRA 7: 60 / 80 W
MIRA 9: 60 / 80 / 100 / 130 W

S Redline · glass tube

MIRA 5S: 40 / 60 W
MIRA 7S: 40 / 60 / 75 / 80 W
MIRA 9S: 40 / 60 / 75 / 80 / 90 / 100 W

S Redline · RF tube

MIRA 5S: RF 30 / 60 W
MIRA 7S: RF 30 / 60 W
MIRA 9S: RF 30 / 60 W

Delivery, installation and training in Tbilisi are included. Ask Geotech for a quotation for your configuration.

FULL-SHEET PRODUCTION

NOVA: industrial bed, still one cabinet.

Rigid unibody frame with front and rear pass-through doors. Chiller, air compressor and exhaust sit inside. The machine splits in two to pass through narrow doorways.



NOVA 10
1000 × 700 mm



NOVA 14
1400 × 900 mm



NOVA 16
1600 × 1000 mm

CHOOSE YOUR LEVEL · DATA FOR NOVA 14

	Classic	Elite	Super
Laser	Glass 100–150W	Glass 90–130W	Glass 100/130W + RF 30/60W
Max speed	1,200 mm/s	1,200 mm/s	4,200 mm/s (RF)
Acceleration	1.8G cutting	5G	8G
Z-axis lift	200 mm	200 mm / 120 kg	200 mm / 120 kg
Dimensions (mm)	1920 × 1495 × 1025	1900 × 1410 × 1125	1900 × 1410 × 1125
Net weight	450 kg	560 kg	560 kg

Elite and Super add: 100° 8MP camera · 1 GB memory · built-in 5200 chiller · 500W auto exhaust · 750W compressor with 40 L tank · tool-free laser tube dock · magnetic lens carriage · smart thermal monitoring · LED status light. **All:** autofocus, red dot, Wi-Fi, honeycomb + blade table, 220V.

LASER POWER OPTIONS

Classic

NOVA 10: 80 / 100 W

NOVA 14: 100 / 130 / 150 W

NOVA 16: 100 / 130 / 150 W

Elite

NOVA 10: 90 / 100 W

NOVA 14: 90 / 100 / 130 W

NOVA 16: 90 / 100 / 130 / 150 W

Super · glass + RF

NOVA 10: 90 / 100 W + RF 30 / 60 W

NOVA 14: 100 / 130 W + RF 30 / 60 W

NOVA 16: 100 / 130 / 150 W + RF 30 / 60 W

Delivery, installation and training in Tbilisi are included. Ask Geotech for a quotation for your configuration.

AEON MIRA SERIES (CLASSIC) · BENCHTOP CO_2 LASER

MIRA 5

The entry point to AEON: 500 × 300 mm bed with cooling, exhaust and air assist built in.



500 × 300 mm
Working area

40–60 W
Glass CO_2 tube

1,200 mm/s
Engraving speed

120 mm
Z-axis lift

WORK AREA AND MOTION

Working area	**500 × 300 mm**
Z-axis lift	**120 mm**
Engraving speed	**engraving 1,200 · cutting 680 mm/s**
Acceleration	**5G**
Cutting thickness	**0–20 mm, material dependent**

LASER

Glass CO_2 tube	**40 / 60 W**
RF metal tube	**30 / 60 W (optional)**
Water chiller	**Built-in water pump (34 W)**

SIZE, POWER, SAFETY

Net weight	**120 kg**
Power supply	**220 V AC, 50/60 Hz**
Safety	**Enclosed body, interlocked lid**
Warranty	**1.5 years**

BUILT IN

Exhaust fan	**Built-in 45 W**
Air assist	**Built-in air pump 18 W**
Work table	**Honeycomb + blade table**
Focus and aiming	**Red dot; autofocus optional**
Camera	**Optional**

CONTROL AND SOFTWARE

Connectivity	**USB, Ethernet; Wi-Fi optional**
Software	**RDWorks; LightBurn optional**

WHAT IT MEANS FOR YOU

- Fewer extras to buy: the cooling unit, air assist and exhaust fan are built into the cabinet.
- Less downtime: Clean Pack design keeps the guides sealed from smoke and dust.
- Grow when you need to: add autofocus, Wi-Fi, camera, rotary and a stand as options.



Running, with LED lighting


Laser head with red-dot pointer


Side panel: emergency stop, key lock

Options: Autofocus · Wi-Fi · camera · roller / chuck rotary · stand · fume filter · LightBurn licence

AEON MIRA SERIES (CLASSIC) · BENCHTOP CO_2 LASER

MIRA 7

The workshop all-rounder: 700 × 450 mm bed, Class 1 enclosure and built-in 3000 chiller.



700 × 450 mm
Working area

60–80 W
Glass CO_2 tube

1,200 mm/s
Engraving speed

150 mm
Z-axis lift

WORK AREA AND MOTION

Working area	**700 × 450 mm**
Z-axis lift	**150 mm**
Engraving speed	**engraving 1,200 · cutting 680 mm/s**
Acceleration	**5G**
Cutting thickness	**0–20 mm, material dependent**

LASER

Glass CO_2 tube	**60 / 80 W**
RF metal tube	**30 W (optional)**
Water chiller	**Built-in 3000 chiller, fan-cooled**

SIZE, POWER, SAFETY

Net weight	**178 kg**
Power supply	**220 V AC, 50/60 Hz**
Safety	**Class 1, interlocked lid, key switch**
Warranty	**1.5 years**

BUILT IN

Exhaust fan	**Built-in 330 W**
Air assist	**Built-in air pump 105 W**
Work table	**Honeycomb + blade table**
Focus and aiming	**Red dot; autofocus optional**
Camera	**Optional**

CONTROL AND SOFTWARE

Connectivity	**USB, Ethernet; Wi-Fi optional**
Software	**RDWorks; LightBurn optional**

WHAT IT MEANS FOR YOU

- Fewer extras to buy: the cooling unit, air assist and exhaust fan are built into the cabinet.
- Less downtime: Clean Pack design keeps the guides sealed from smoke and dust.
- Grow when you need to: add autofocus, Wi-Fi, camera, rotary and a stand as options.


Control panel


Blade table inside


On the optional stand

Options: Autofocus · Wi-Fi · camera · roller / chuck rotary · stand · fume filter · LightBurn licence

AEON MIRA SERIES (CLASSIC) · BENCHTOP CO_2 LASER

MIRA 9

The big desktop: 900 × 600 mm bed, glass tube up to 130 W and a 5000 compressor chiller.



900 × 600 mm
Working area

60–130 W
Glass CO_2 tube

1,200 mm/s
Engraving speed

150 mm
Z-axis lift

WORK AREA AND MOTION

Working area	**900 × 600 mm**
Z-axis lift	**150 mm**
Engraving speed	**engraving 1,200 · cutting 680 mm/s**
Acceleration	**5G**
Cutting thickness	**0–20 mm, material dependent**

LASER

Glass CO_2 tube	**60 / 80 / 100 / 130 W**
RF metal tube	**30 / 50 W (optional)**
Water chiller	**Built-in 5000 compressor chiller**

SIZE, POWER, SAFETY

Net weight	**228 kg**
Power supply	**220 V AC, 50/60 Hz**
Safety	**Class 1, interlocked lid, key switch**
Warranty	**1.5 years**

BUILT IN

Exhaust fan	**Built-in 330 W**
Air assist	**Built-in air pump 105 W**
Work table	**Honeycomb + blade table**
Focus and aiming	**Red dot; autofocus optional**
Camera	**Optional**

CONTROL AND SOFTWARE

Connectivity	**USB, Ethernet; Wi-Fi optional**
Software	**RDWorks; LightBurn optional**

WHAT IT MEANS FOR YOU

- Fewer extras to buy: the cooling unit, air assist and exhaust fan are built into the cabinet.
- Less downtime: Clean Pack design keeps the guides sealed from smoke and dust.
- Grow when you need to: add autofocus, Wi-Fi, camera, rotary and a stand as options.


Control panel with LCD


Laser head over the blade table


Rear: chiller and exhaust built in

Options: Autofocus · Wi-Fi · camera · roller / chuck rotary · stand · fume filter · LightBurn licence

AEON MIRA S SERIES · CLASS 1 BENCHTOP CO_2 LASER

MIRA 5S

The compact all-in-one: signs, gifts, jewellery and small batches on a 500 × 300 mm bed.



500 × 300 mm
Working area

40–60 W
Glass CO_2 tube

2,000 mm/s
RF engraving speed

140 mm
Z-axis lift

WORK AREA AND MOTION

Working area	**500 × 300 mm**
Z-axis lift	**140 mm**
Max. table load	**15 kg**
Engraving speed	**glass 1,200 · RF 2,000 mm/s**
Acceleration	**5G**
Smallest text	**1.0 × 1.0 mm**
Cutting thickness	**0–20 mm, material dependent**

LASER

Glass CO_2 tube	**40 / 60 W**
RF metal tube	**30 / 60 W**
Water chiller	**Built-in 3000 (glass tube)**

SIZE, POWER, SAFETY

Dimensions L×W×H	**900 × 700 × 410 mm**
Net weight	**110 kg**
Power supply	**220 V AC, 50/60 Hz**
Safety	**Class 1 enclosure, interlocked lid**
Warranty	**1.5 years**

BUILT IN

Exhaust fan	**Built in**
Air assist	**Built-in air pump**
Work table	**Honeycomb + blade table**
Camera	**Built-in, LightBurn-ready**
Focus and aiming	**Autofocus + red dot**
Pass-through door	**Yes**

CONTROL AND SOFTWARE

Smart panel	**No**
Connectivity	**Wi-Fi, USB, Ethernet**
Software	**RDWorks; LightBurn optional**

WHAT IT MEANS FOR YOU

- Plug in and start: chiller, air pump and exhaust are inside the cabinet. No extra boxes, hoses or suppliers.
- Less downtime: sealed guides and an alignment-free optical path keep the machine cutting instead of waiting for service.
- Exact placement: the camera and red dot show the real material on screen. Less waste, fewer test cuts.



Running, with LED lighting


Laser head with red-dot pointer


Side panel: emergency stop, key lock

Options: Roller rotary · chuck rotary · stand · drawer stand · LightBurn licence · air purifier

AEON MIRA S SERIES · CLASS 1 BENCHTOP CO_2 LASER

MIRA 7S

The all-round workshop machine: 700 × 500 mm bed, smart diagnostics panel and TÜV Rheinland certification.



700 × 500 mm
Working area

40–80 W
Glass CO_2 tube

2,000 mm/s
RF engraving speed

140 mm
Z-axis lift

WORK AREA AND MOTION

Working area	**700 × 500 mm**
Z-axis lift	**140 mm**
Max. table load	**25 kg**
Engraving speed	**glass 1,200 · RF 2,000 mm/s**
Acceleration	**5G**
Smallest text	**1.0 × 1.0 mm**
Cutting thickness	**0–20 mm, material dependent**

LASER

Glass CO_2 tube	**40 / 60 / 75 / 80 W**
RF metal tube	**30 / 60 W**
Water chiller	**Built-in 3000 (glass tube)**

SIZE, POWER, SAFETY

Dimensions L×W×H	**1128 × 945 × 510 mm**
Net weight	**185 kg**
Power supply	**220 V AC, 50/60 Hz**
Safety	**Class 1 enclosure, interlocked lid, TÜV Rheinland**
Warranty	**1.5 years**

BUILT IN

Exhaust fan	**Built in**
Air assist	**Built-in air pump**
Work table	**Honeycomb + blade table**
Camera	**Built-in, LightBurn-ready**
Focus and aiming	**Autofocus + red dot**
Pass-through door	**Yes**

CONTROL AND SOFTWARE

Smart panel	**Yes, with diagnostics**
Connectivity	**Wi-Fi, USB, Ethernet**
Software	**RDWorks; LightBurn optional**

WHAT IT MEANS FOR YOU

- Plug in and start: chiller, air pump and exhaust are inside the cabinet. No extra boxes, hoses or suppliers.
- Less downtime: sealed guides and an alignment-free optical path keep the machine cutting instead of waiting for service.
- Exact placement: the camera and red dot show the real material on screen. Less waste, fewer test cuts.


Control panel


Blade table inside


On the optional stand

Options: Roller rotary · chuck rotary · stand · drawer stand · LightBurn licence · air purifier

AEON MIRA S SERIES · CLASS 1 BENCHTOP CO_2 LASER

MIRA 9S

The desktop that cuts big: 900 × 600 mm bed, glass tube up to 100 W and a 5000 chiller.



900 × 600 mm
Working area

40–100 W
Glass CO_2 tube

2,000 mm/s
RF engraving speed

150 mm
Z-axis lift

WORK AREA AND MOTION

Working area	**900 × 600 mm**
Z-axis lift	**150 mm**
Max. table load	**25 kg**
Engraving speed	**glass 1,200 · RF 2,000 mm/s**
Acceleration	**5G**
Smallest text	**1.0 × 1.0 mm**
Cutting thickness	**0–20 mm, material dependent**

LASER

Glass CO_2 tube	**40 / 60 / 75 / 80 / 90 / 100 W**
RF metal tube	**30 / 60 W**
Water chiller	**Built-in 5000 (glass tube)**

SIZE, POWER, SAFETY

Dimensions L×W×H	**1328 × 1070 × 530 mm**
Net weight	**225 kg**
Power supply	**220 V AC, 50/60 Hz**
Safety	**Class 1 enclosure, interlocked lid**
Warranty	**1.5 years**

BUILT IN

Exhaust fan	**Built in**
Air assist	**Built-in air pump**
Work table	**Honeycomb + blade table**
Camera	**Built-in, LightBurn-ready**
Focus and aiming	**Autofocus + red dot**
Pass-through door	**Yes**

CONTROL AND SOFTWARE

Smart panel	**Yes, with diagnostics**
Connectivity	**Wi-Fi, USB, Ethernet**
Software	**RDWorks; LightBurn optional**

WHAT IT MEANS FOR YOU

- Plug in and start: chiller, air pump and exhaust are inside the cabinet. No extra boxes, hoses or suppliers.
- Less downtime: sealed guides and an alignment-free optical path keep the machine cutting instead of waiting for service.
- Exact placement: the camera and red dot show the real material on screen. Less waste, fewer test cuts.


Control panel with LCD


Laser head over the blade table


Rear: chiller and exhaust built in

Options: Roller rotary · chuck rotary · stand · drawer stand · LightBurn licence · air purifier

AEON NOVA SERIES · CLASS 1 INDUSTRIAL CO_2 LASER (ELITE / SUPER)

NOVA 10

Industrial bed in a compact footprint: 1000 × 700 mm with front and rear pass-through doors.



1000 × 700 mm
Working area

90–100 W
Glass tube, Elite / Super

4,000 mm/s
Super, RF tube

8G
Super, AC servo

CHOOSE YOUR LEVEL: CLASSIC, ELITE, SUPER

	Classic	Elite	Super
Glass CO_2 tube	80 / 100 W	90 / 100 W	90 / 100 W
RF metal tube	–	–	30 / 60 W
Max. engraving speed	1,200 mm/s	1,200 mm/s	4,000 mm/s (RF)
Acceleration	1.8G	5G · DC stepper	8G · AC servo
Built-in water chiller	–	5000	5000
Built-in air compressor	–	750 W, 24 L	750 W, 24 L
Built-in exhaust, auto start/stop	–	500 W	500 W
8 MP camera, 1 GB memory	–	✓	✓
Tool-free tube dock, magnetic lens	–	✓	✓
Smart monitoring, status light	–	✓	✓

WORK AREA AND MOTION

Working area	1000 × 700 mm
Z-axis lift	200 mm
Max. table load	120 kg
Cutting thickness	0–30 mm, material dependent

SIZE, POWER, SAFETY

Dimensions L×W×H	1500 × 1210 × 1125 mm
Net weight	415 kg net · 532 kg packed
Power supply	220 V AC single phase, 50/60 Hz
Safety	Class 1, interlocks, key lock, water alarms

BUILT IN

Water chiller	Built-in 5000 (glass tube); RF air-cooled
Work table	Honeycomb + blade, scrap drawer
Focus and aiming	Autofocus + red dot
Connectivity	Wi-Fi, USB, Ethernet; 1 GB memory
Software	RDWorks; LightBurn optional


Laser head with air nozzle


LED-lit blade table


Side view with service panel

Options: Rotary clamp · LightBurn licence · air purifier

AEON NOVA SERIES · CLASS 1 INDUSTRIAL CO_2 LASER (ELITE / SUPER)

NOVA 14

Wide-format production: 1400 × 900 mm bed, glass tube up to 130 W with an RF option on the Super.



1400 × 900 mm
Working area

90–130 W
Glass tube, Elite / Super

4,200 mm/s
Super, RF tube

8G
Super, AC servo

CHOOSE YOUR LEVEL: CLASSIC, ELITE, SUPER

	Classic	Elite	Super
Glass CO_2 tube	100 / 130 / 150 W	90 / 100 / 130 W	90 / 100 / 130 W
RF metal tube	–	–	30 / 60 W
Max. engraving speed	1,200 mm/s	1,200 mm/s	4,200 mm/s (RF)
Acceleration	1.8G	5G · DC stepper	8G · AC servo
Built-in water chiller	–	5200	5200
Built-in air compressor	–	750 W, 40 L	750 W, 40 L
Built-in exhaust, auto start/stop	–	500 W	500 W
8 MP camera, 1 GB memory	–	✓	✓
Tool-free tube dock, magnetic lens	–	✓	✓
Smart monitoring, status light	–	✓	✓

WORK AREA AND MOTION

Working area	1400 × 900 mm
Z-axis lift	200 mm
Max. table load	120 kg
Cutting thickness	0–30 mm, material dependent

SIZE, POWER, SAFETY

Dimensions L×W×H	1900 × 1410 × 1125 mm
Net weight	560 kg net · 683 kg packed
Power supply	220 V AC single phase, 50/60 Hz
Safety	Class 1, interlocks, key lock, water alarms

BUILT IN

Water chiller	Built-in 5200 (glass tube); RF air-cooled
Work table	Honeycomb + blade, scrap drawer
Focus and aiming	Autofocus + red dot
Connectivity	Wi-Fi, USB, Ethernet; 1 GB memory
Software	RDWorks; LightBurn optional


Laser head with red-dot pointer


Honeycomb table and gantry



Lid open, front view

Options: Rotary clamp · LightBurn licence · air purifier

AEON NOVA SERIES · CLASS 1 INDUSTRIAL CO_2 LASER (ELITE / SUPER)

NOVA 16

The largest AEON bed: 1600 × 1000 mm, glass tube up to 150 W and a 40 L air tank.



1600 × 1000 mm
Working area

90–150 W
Glass tube, Elite / Super

4,200 mm/s
Super, RF tube

8G
Super, AC servo

CHOOSE YOUR LEVEL: CLASSIC, ELITE, SUPER

	Classic	Elite	Super
Glass CO_2 tube	100 / 130 / 150 W	90 / 100 / 130 / 150 W	90 / 100 / 130 / 150 W
RF metal tube	–	–	30 / 60 W
Max. engraving speed	1,200 mm/s	1,200 mm/s	4,200 mm/s (RF)
Acceleration	1.8G	5G · DC stepper	8G · AC servo
Built-in water chiller	–	5200	5200
Built-in air compressor	–	750 W, 40 L	750 W, 40 L
Built-in exhaust, auto start/stop	–	500 W	500 W
8 MP camera, 1 GB memory	–	✓	✓
Tool-free tube dock, magnetic lens	–	✓	✓
Smart monitoring, status light	–	✓	✓

WORK AREA AND MOTION

Working area	1600 × 1000 mm
Z-axis lift	200 mm
Max. table load	120 kg
Cutting thickness	0–30 mm, material dependent

SIZE, POWER, SAFETY

Dimensions L×W×H	2100 × 1510 × 1125 mm
Net weight	566 kg net · 730 kg packed
Power supply	220 V AC single phase, 50/60 Hz
Safety	Class 1, interlocks, key lock, water alarms

BUILT IN

Water chiller	Built-in 5200 (glass tube); RF air-cooled
Work table	Honeycomb + blade, scrap drawer
Focus and aiming	Autofocus + red dot
Connectivity	Wi-Fi, USB, Ethernet; 1 GB memory
Software	RDWorks; LightBurn optional



Front view, 1600 × 1000 mm bed


Rear: ventilation and service access


Laser head with air nozzle

Options: Rotary clamp · LightBurn licence · air purifier

WHAT YOU CAN MAKE

One machine, dozens of materials.

CO_2 lasers cut and engrave wood, plastics, textiles, leather, paper, rubber, glass and stone. The table follows AEON's material list. Metals are not cut; coated and anodised metals can be engraved.

Wood and paper	Engrave	Cut
Wood, plywood, bamboo	●	●
MDF	●	●
Paper and cardboard	●	●
Die-cutting board	–	●

Plastics	Engrave	Cut
Acrylic (PMMA)	●	●
ABS, double-colour sheet	●	●
PLA, PEEK, PDMS	●	●
PET, POM, PC, PA, PE, PP	–	●

Soft materials	Engrave	Cut
Leather and PU	●	●
Fabric, felt	●	●
Rubber, silicone	●	●
EVA, foam, foam board	●	●
Label film	–	●

Glass, stone and ceramic	Engrave	Cut
Glass, bottles, mirrors	●	–
Marble, granite, stone	●	–
Ceramic and tile	●	–
Coated or anodised metal	●	–
Shell (abalone)	–	●





















Never cut PVC or vinyl. It releases corrosive chlorine gas that damages the machine and your health. If you are unsure about a material, ask us first.

REFERENCE SPEEDS

Know your speeds before you buy.

Cutting speeds in mm/s for glass CO_2 tubes at 95 % laser power. Each cell shows the maximum speed / the best-quality speed. A dash means the cut is not practical at that power. MIRA tubes go up to 100 W, NOVA up to 150 W.

Material	Thickness	40 W	60 W	80 W	100 W	130 W	150 W
Acrylic	3 mm	15 / 10	20 / 15	25 / 20	30 / 25	35 / 30	40 / 35
	5 mm	8 / 5	10 / 7	12 / 8	15 / 10	17 / 12	21 / 15
	8 mm	4 / 2	5 / 3	9 / 5	10 / 6	12 / 8	15 / 10
	10 mm	3 / –	4 / 2	6 / 3	7 / 4	8 / 5	11 / 7
	15 mm	–	2 / 0.8	3 / 1.5	4 / 2	5 / 3	7 / 4
	20 mm	–	1 / 0.3	1.5 / 0.5	2 / 0.7	3 / 1	4 / 1.5
	25 mm	–	–	0.5 / 0.2	0.8 / 0.3	1 / 0.4	1.8 / 0.8
	30 mm	–	–	–	0.3 / –	0.5 / 0.3	0.8 / 0.5
	35 mm	–	–	–	–	0.2 / –	0.4 / 0.1
	40 mm	–	–	–	–	–	0.1 / –
Die board	15 mm	–	–	–	–	4 / 3	6 / 4.5
	18 mm	–	–	–	–	2 / 1.2	4 / 2.5
	20 mm	–	–	–	–	–	2.5 / 1.8
MDF	3 mm	9 / 7	15 / 12	20 / 15	23 / 18	25 / 20	30 / 25
	5 mm	5 / 3.5	10 / 8	13 / 10	15 / 13	18 / 15	21 / 18
	10 mm	–	3 / –	5 / 3.5	7 / 5	9 / 6.5	12 / 9
	15 mm	–	–	–	2.5 / –	4 / 3	7 / 5.5
	18 mm	–	–	–	–	–	4 / –
Leather	1 layer	15 / 12	20 / 17	25 / 20	30 / 25	40 / 35	45 / 40
Solid wood	3 mm	10 / 8	15 / 12	20 / 18	25 / 22	30 / 28	35 / 33
	5 mm	5 / –	10 / 8	15 / 10	20 / 18	25 / 22	30 / 28
	10 mm	–	4 / –	8 / 6	12 / 10	15 / 13	20 / 17
	15 mm	–	–	–	8 / 5	11 / 8	15 / 13
Fabric	1 layer	40 / 38	60 / 58	100 / 98	200 / 195	300 / 295	400 / 395
ABS 2-colour	2 mm	15 / 13	25 / 20	35 / 30	40 / 35	45 / 40	55 / 50
Paper	1 layer	80 / 40	120 / 40	150 / 40	250 / 40	350 / 40	450 / 40
Rubber	4 mm (cut 1)	15 / 13	25 / 20	30 / 27	35 / 33	40 / 38	45 / 43
	6 mm (cut 2)	10 / 8	15 / 10	18 / 15	20 / 18	25 / 23	30 / 28

Reference values from AEON's test table. Real speeds depend on the material, lens, air assist and tube condition. Always make a test cut.

TIPS FROM AEON

Acrylic: light or sideways air on top for a smooth edge, and air flow under the sheet to prevent flare-ups.

Wood, MDF, die board: more air means faster cuts. For die board use a 4-inch (100 mm) lens for a narrower kerf.

Leather and fabric: 2-inch (50 mm) lens, 60–100 W tube and an oil-free air compressor.

Paper: the more powerful the tube, the lower the power percentage to set.

AFTER YOU BUY

Installed, taught, and backed locally.

Warranty

Machine	**1.5 year**
Linear guides	**2 years**
Glass laser tube	**12 months**
RF tube 30W	**2 years**
RF tube 60W	**1 year**

Included with every machine

- Delivery to your workshop in Tbilisi
- Installation and commissioning
- Operator training on your machine
- Local technical support and parts

Outside Tbilisi (Kutaisi, Batumi and other cities): small extra installation fee, ask us.

ACCESSORIES

Rotary

Roller rotary
Chuck rotary

Bottles, glasses, mugs, rings.

Stands

MIRA 5S
MIRA 7S
MIRA 9S

Drawer stands

MIRA 5S
MIRA 7S
MIRA 9S

Also available on request: LightBurn licence, air purifier, extra lenses.

WHAT YOU CAN MAKE

Cut and engrave: acrylic, wood, plywood, MDF, leather, fabric, paper, cardboard, rubber, foam.

Engrave: glass, marble, granite, tile, stone, anodised aluminium.

HOW TO ORDER

1
Tell us your materials and largest sheet.

2
We recommend a model and send you a quote.

3
Confirm the order and sign the contract.

4
Delivery, installation, training, warranty.

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