

# **Enter Cutting / Engraving markets**

The range of EKo lasers is the result of our experience of more than 25 years in Co2 lasers

Designed in Switzerland and assembled in Asia, Eko lasers are built from the best components on the market, ensuring high cutting performance.

Due to their glass tube quality, they can also be used in engraving.

With innovative space saving All in one system, fume extractor, air assistance and tube water cooling unit are all integrated into the machine.

Lasers are also equipped as standard with autofocus, red laser pointer, honeycomb cutting table as well as a CAD software.

# Possible applications:

architectural models, company plaques, signage, stamps, promotional items, machine front plates, stencils, customized greeting cards, textiles, trophies and much more ...





# **Equipments & products**

# **Many possible applications:**

	*	*
En	graving	Cutti
Acrylics	Yes	Yes
Anodized aluminum	Yes	No
Wood	Yes	Yes
Rubber	Yes	Yes
Tile	Yes	No
Céramic	Yes	No
Leather	Yes	Yes
Delrin	Yes	Yes
Glass fiber	Yes	Yes
Stainless steel, Titanium, Brass (with thermark)	Yes	No
Marble	Yes	No
Melamine	Yes	Yes
Painted metal (no bare metal)	Yes	No
Coated metal	Yes	No
Mylar	Yes	Yes
Paper – carton	Yes	Yes
Plastic (not containing chlorine)	Yes	Yes
Fabrics	Yes	Yes
Glass	Yes	No

With EKO lasers, **Thermoflan** offers a full range of versatile, economical and efficient Co2 lasers

With an innovative design, combining aesthetics and minimum space, machines are equipped with an all-in-one system including dust extraction (released outside), air assistance (to reduce dust and flame risks) and laser tube water cooling unit.

Lasers are built on a tubular frame providing high stability, without vibration at high speed (up to 1200 mm / sec and 5G acceleration). Linear rails are optimally protected to limit maintenance and avoid dust deposits.

A digital control panel, in French, displays processed / stored files and includes all machine movement controls.

Z axis (platform height) is guided by endless screws with autofocus by probe.

Lasers are equipped with a red dot pointer to simulate work and make material positioning easier.

Honeycomb cutting table and blade table come as standard. Rotary device and dust filtration unit are available as option.

The included CAD software, in French language, allows to import all file formats and simulate the job to be processed.













SPECIFICATIONS	EKO 5	EKO 7	EKO 9	EKO 10	EKO 14	EKO 16
Laser Source	Water-cooled glass laser tube : 40 w 60 w (body extension)	Water-cooled glass laser tube : 40 / 60 w 80 / 100 w (body extension)	Water-cooled glass laser tube : 40 / 60 w 80 / 100 w (body extension)	Water-cooled glass laser tube : 80 w 100 / 130 / 150 w (body extension)	Water-cooled glass laser tube : 80 / 100 w 130 / 150 w (body extension)	Water-cooled glass laser tube : 80 / 100 / 130 / 150 w
Standards	Automatic focusing by mechanical probe.  Red pointer to simulate job or define origin point.  2" focus lens  Honeycomb cutting table and aluminum slat tables to reduce burn marks in cutting jobs.  Air assistance and dust extraction to the outside  Water cooling unit included.  Digital control panel in French.	Automatic focusing by mechanical probe.  Red pointer to simulate job or define origin point.  2" focus lens  Honeycomb cutting table and aluminum slat tables to reduce burn marks in cutting jobs.  Air assistance and dust extraction to the outside Water cooling unit included.  Digital control panel in French.	Automatic focusing by mechanical probe.  Red pointer to simulate job or define origin point.  2" focus lens  Honeycomb cutting table and aluminum slat tables to reduce burn marks in cutting jobs.  Air assistance and dust extraction to the outside  Water cooling unit included.  Digital control panel in French.	Automatic focusing by mechanical probe.  Red pointer to simulate job or define origin point.  2.5" focus lens  Honeycomb cutting table and aluminum slat tables to reduce burn marks in cutting jobs.  Air assistance and dust extraction to the outside Water cooling unit included.  Digital control panel in French.  Openable back/front doors for passage of large sized parts.	Automatic focusing by mechanical probe.  Red pointer to simulate job or define origin point.  2.5" focus lens  Honeycomb cutting table and aluminum slat tables to reduce burn marks in cutting jobs.  Air assistance and dust extraction to the outside Water cooling unit included.  Digital control panel in French.  Openable back/front doors for passage of large sized parts.	Automatic focusing by mechanical probe.  Red pointer to simulate job or define origin point.  2.5" focus lens  Honeycomb cutting table and aluminum slat tables to reduce burn marks in cutting jobs.  Air assistance and dust extraction to the outside  Water cooling unit included.  Digital control panel in French.  Openable back/front doors for passage of large sized parts.
Working surface	500 x 300 mm	700 x 450 mm	900 x 600 mm	1000 x 700 mm	1400 x 900 mm	1600 x 1000 mm
Automatic motorized Z axis adjustment	from 0 mm to 120 mm maximum	from 0 mm to 150 mm maximum	from 0 mm to 150 mm maximum	from 0 mm to 200 mm maximum	from 0 mm to 200 mm maximum	from 0 mm to 200 mm maximum
Maximum part sizes	500 mm x 300 mm	700 mm x 450 mm	900 mm x 600 mm	1000 mm x no limit mm	1400 mm x no limit mm	1600 mm x no limit mm
Working speed	adjustable from 0 to 1200 mm / sec / 5G acceleration	adjustable from 0 to 1200 mm / sec / 5G acceleration	adjustable from 0 to 1200 mm / sec / 5G acceleration	adjustable from 0 to 1000 mm / sec / 1.8 G acceleration	adjustable from 0 to 1000 mm / sec / 1.8 G acceleration	adjustable from 0 to 1000 mm / sec / 1.8 G acceleration
Interface	USB & ethernet + USB key for easy transfer	USB & ethernet + USB key for easy transfer	USB & ethernet + USB key for easy transfer	USB & ethernet + USB key for easy transfer.	.USB & ethernet + USB key for easy transfer.	USB & ethernet + USB key for easy transfer
Software	LightBurn CAD software in French compatible with graphics softwares (Coreldraw, Autocad, Illustrator, Inkscape)	LightBurn CAD software in French compatible with graphics softwares (Coreldraw, Autocad, Illustrator, Inkscape)	LightBurn CAD software in French compatible with graphics softwares (Coreldraw, Autocad, Illustrator, Inkscape)	LightBurn CAD software in French compatible with graphics softwares (Coreldraw, Autocad, Illustrator, Inkscape)	LightBurn CAD software in French compatible with graphics softwares (Coreldraw, Autocad, Illustrator, Inkscape)	LightBurn CAD software in French compatible with graphics softwares (Coreldraw, Autocad, Illustrator, Inkscape)
Safety standards	CDRH laser : class 4 - Red pointer : class 2 - CE standard	CDRH laser : class 1 - Red pointer : class 2 - CE standard	CDRH laser : class 1 - Red pointer : class 2 - CE standard	CDRH laser : class 1 - Red pointer : class 2 - CE standard	CDRH laser : class 1 - Red pointer : class 2 - CE standard	CDRH laser : class 1 - Red pointer : class 2 - CE standard

OPTIONS						
Dust/fume collection	Filtration unit : Pre+ hepa + carbon filters	Filtration unit : Pre+ hepa + carbon filters	Filtration unit : Pre+ hepa + carbon filters	Filtration unit: Pre+ hepa + carbon filters	Filtration unit : Pre+ hepa + carbon filters	Filtration unit : Pre+ hepa + carbon filters
Rotary device	Rotary tool for bottle or cylinder engraving					



# **Equipments & products**

### **DETAILS**



#### Laser nozzle

An"All Clean pack" system reduces dust penetration into the rail. The nozzle is equipped with air assistance to blow dust away and reduce risk of

Autofocus by touch probe and red pointer comes as standard

#### Software

Lasers are supplied with a CAD software in French for layout/edition/ machine control

It can import a wide variety of image formats, organize, create new shapes, and configure laser (speed, power, cutting ...).

It is available for Windows, Mac and Linux.





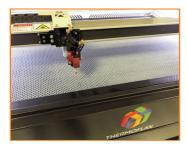
#### Slat table

Our machines are equipped with an aluminum slat table.

Slats are modular according to desired space, to avoid laser beam reflectio. They are ideal for cutting thick and rather wide materials.

#### Honeycomb cutting table

Honeycomb table is included as standard in the whole range. It allows the material to be raised and limit the laser beam reflection, thus avoiding traces on material backside





#### **Digital control panel**

From the user-friendly and in French digital control panel, it is possible to move carriage, set the table height, access to files, start a job.

Files can be stored in the laser memory for later use

Work can also be simulated from the control panel.

#### All in 1 sytem:

the machine frame includes:

- air assistance compressor, to blow on processed material
- -extraction to suck dust and odors and release them outside of the machine
- water cooling unit for laser tube.



# CONSUMABLES



#### \lumamark:

CO2 laser markable anodized aluminum plate. Alumamark produces black images on anodized aluminum background Availabe in 2 thicknesses: 0.13 mm, 0.5 mm and 4 colors: silver, gold, bronze, brass.

#### Thermark:

For laser marking on metals (stainless steel, brass, aluminum, titanium, ...) or glass Product can be sprayed or applied with a brush (100 grs bottle).).

#### aserable rubber

For rubber stamp manufacture Thickness = 2.3 mm.

# Laserable plates:

Wide choice of colors and materials specially developed for laser engraving and cutting. (see specific documentation).

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