

GRAVOGRAPH



GRAVOTECH GROUP

LASER SOLUTION by GRAVOGRAPH

ENGRAVING
AND CUTTING
LASER SOLUTIONS



RANGE OF
XY GANTRY TABLES

www.gravograph.com

LASER OUR KNOW-HOW

INNOVATION

Gravograph constantly innovates. Our ability to anticipate market trends, customers demands and our dedication to satisfy our customers drive our strategy and product developments. Our dedicated Center of Innovation and Technology, based in-house in France, sets the path to our future solutions.

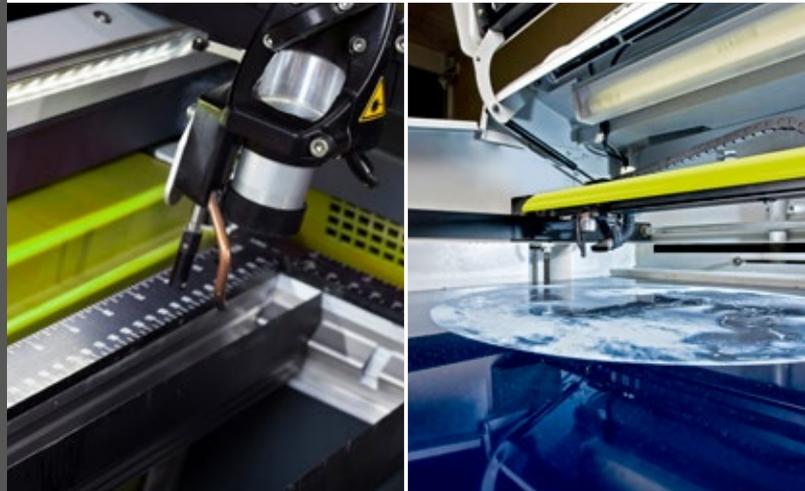
Easy-to-use, open, our laser equipment laser outrun standards around the world.

Our customer intimacy is the key to our expertise. From the freelance professional engraver to the largest international corporation, we understand their needs and satisfy them.

“

In our sector, a constant stream of new products and applications is indispensable for lasting success.

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A WORD ABOUT FUMES

Many industrial processes can generate harmful dust and fume. An operation where a material is cut, marked or engraved has the potential to produce harmful materials.

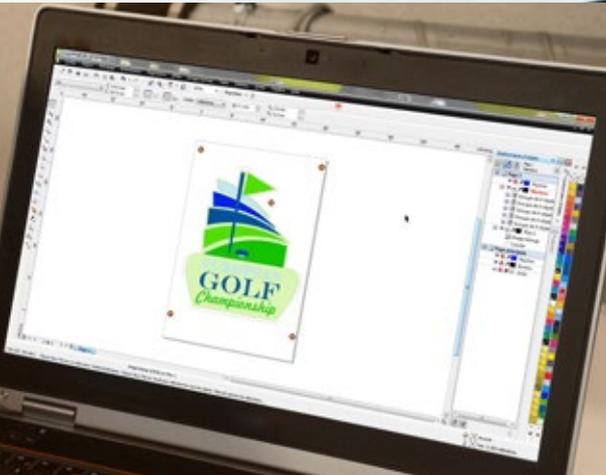
To ensure compliance with health and safety regulations, to protect employees' health, provide a better working environment and reduce downtime, we recommend you install the most appropriate extraction system.

EXPERT ADVICE

Investing in your future laser solution is not just luck. Here are a few crucial parameters you need to think ahead before you make your decision:

- Size and ventilation of your future laser's location is the first step in your decision-making
- Size and volume of the pieces you will be working on will answer many questions you will face for your solution
- Comfort and ergonomics of your solution will determine how much time you spend on it and eventually your ROI.

PRODUCTIVITY GAINS START WITH GRAVOSTYLE



A SPECIALIZED SOFTWARE FOR LASER

The software functions have been developed for full interaction with the design of our laser equipment. Laserstyle™ thus helps you maximise the potential of your Gravograph laser engraving machine.

Focus on Print & Cut solution

Allow precision-cut printed shapes on rigid media thanks to UV-LED digital flatbed printing and your Gravograph solution.



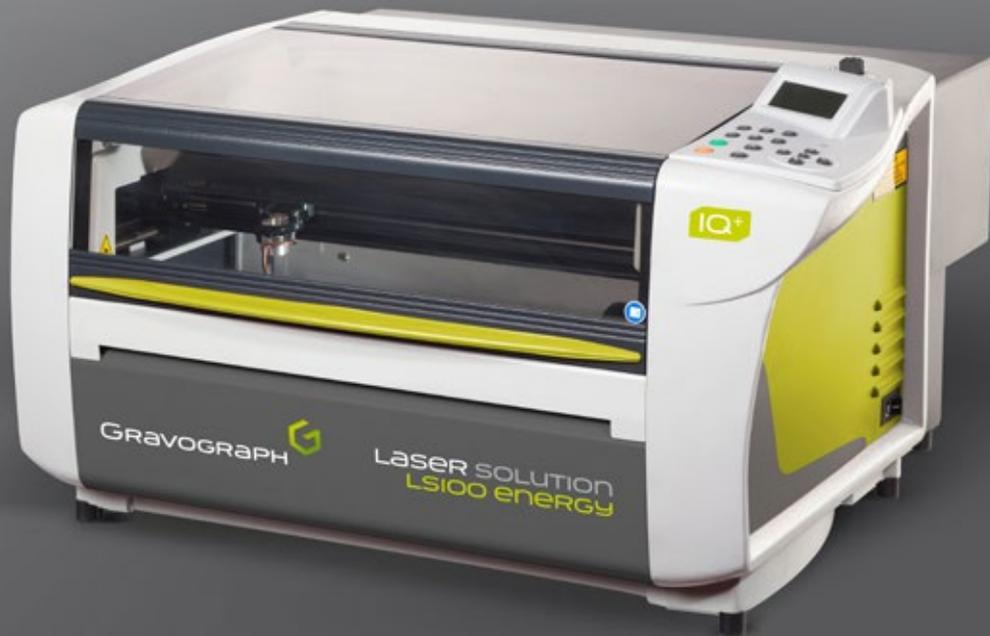
SIMPLIFY YOUR LASERING WITH PROFESSIONAL FEATURES

The powerful possibilities offered by the Matrix resolve the daily concerns of many customers. What's more, the wizard is simple to use and intuitive and it allows you to explore new possibilities.

Save time and quality during engraving thanks to our professional wizards. Plate creation is easy with our dedicated and intuitive assistant. Layout creation is simple, automatic and rapid for any flat engraving.

LS100 ENERGY SERIES

Compact, economical laser engraving solutions



Laserstyle™ software included



AFFORDABLE

This compact 25W CO2 laser with its 460 x 305 mm engraving area is ideal for stores and offices with plaque engraving and object personalisation needs. Economical, its low running costs allow the immediate, on-site performance of such tasks.



EASY TO OPERATE

The LS 100 ENERGY Series has been designed to cater for a diverse range of applications (flat and cylinder engraving, engraving on objects). Its many accessories and additional equipment allow you to easily configure the very best solution for your working environment (see end of brochure).



RELIABLE

Controlled by the Gravostyle™ software package, the composition of your engraving tasks is rapid. Parameters for the various materials are saved and advanced functions simplify the execution of specific jobs. A number of unique functionalities originate from the LS range proven in an industrial setting.



INTEGRATED AIR COMPRESSOR

Keep the lens clean to ensure high quality engraving results. Protect the focal lens by pushing the fumes to the direction of exhaust area. Increase life span of lenses and participate to safe working conditions for the user.

LS100 SERIES

Versatile engraving and cutting laser solutions



Laserstyle™ software included



COMPACT

The LS100 and LS100Ex are easily installed in your shop, office or retail outlet. Their ergonomic design and features facilitate daily use. It is the ideal solution for marking, engraving or cutting a wide variety of materials such as plastics, wood, acrylic, coated metals, glass, leather...



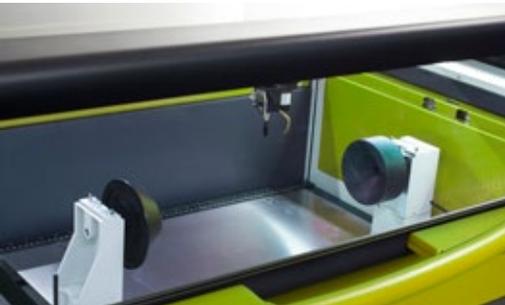
VERSATILE

The LS100 Series meets the needs of users from the most simple customization for engraving work to industrial cutting. Parameters are saved with the job and advanced functions provide extended capabilities for specific engraving requirements (nesting, matrix function, rubber stamp wizards, dials, etc.).



PRODUCTIVE

The opening and front loading allows to load and adjust parts effortlessly, the light marking table allows to visualize the job. Thanks to the integrated dashboard, the operator can directly edit the job, refine its settings and avoids any loss of time.



CYLINDRICAL ATTACHMENT (OPTION)

Allow the engraving all around a cylindrical part like a glass or a vernier. Cylindrical and voluminous engraving is possible. And cylindrical attachment is easy to set and dismantle.

LS900 SERIES

Large format solutions for optimum productivity



Laserstyle™ software included



HEAVY DUTY

The 610 x 610 mm engraving area combined with the 250 mm Z travel enables the unit to process a wide range of parts sizes from small nameplates to large control panels, both in single item processing and in large batches.



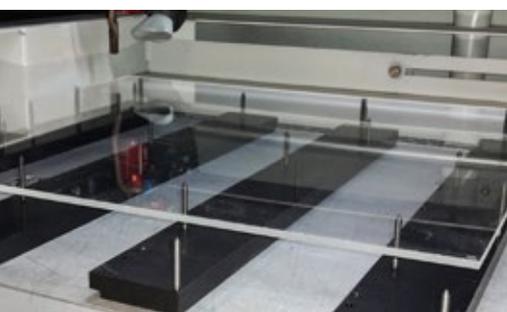
ACCURATE

With its very robust design the LS900 range provides exceptional reliability and consistency. Engineered for productivity the LS900 includes many features such as a red aiming beam laser, automatic focal adjust, a cycle time indicator and an end of job alarm, allow for efficient job processing.



PRINT AND CUT COMPATIBLE

Compatible with the Print & Cut solution, precision-cut of printed shapes on rigid media is possible. Simple, economical, effective and flexible, these technologies combined allow you to open up the scope of your business activities.



FLOATING PIN TABLE

Restrict the contact between object and table to achieve constant engraving quality. Confidently undertake any type of engraving asked by your customers with the modular pin system. Light and easy to use, it can rapidly be used and removed.

LS1000 SERIES

Powerful and heavy duty laser solutions



Laserstyle™ software included



WORKING SPACE

Loading of a whole material sheet size 1220 x 610 mm is possible with the LS1000 Series. The Series allows vertical capacity of 300 mm for engraving of bulky objects, the production of rubber stamps and has cylindrical capability.



MADE FOR CUTTING

Optimal productivity with engraving speeds of up to 4 meters/sec on a 1220 x 610 mm working area. CO2 laser sources ranging from 60 to 150W for precise engraving and large scale cutting applications.



ERGONOMIC

The LS1000XP standard configuration includes a multitude of innovative functions aiming to reduce production times and increase usability: Front-Loading concept for total accessibility, Integrated cutting table with removable slats and material recovery tray, Modular engraving table, Double pass-through.



OPTICS : A RANGE FROM 2 TO 4 INCHES

An adapted lens results in better productivity. Say yes to any customer demand for engraving with the most suitable and adapted lens for the job.

FIBER SERIES

The compact fiber laser marking systems



Laserstyle™ software included



METAL MARKING

The LS100ex Fibre and LS900 Fibre machines are perfect solutions for direct engraving on a wide variety of metal parts and plates. This process dispenses with the need to apply a surface additive. These solutions also produce excellent results on plastics.



WORKING SPACE

The LS900 Fibre ensures productivity and high quality contrast as well as unmatched engraving and cutting capabilities. It ensures high productivity with its generous printing area (610 x 610 mm), allowing the engraving of bulky objects from a height up to 250mm and up to 25kg.



VERSATILE

The LS100Ex FIBRE and LS900 FIBRE solutions engrave with enhanced contrast quality. Of compact design, the ergonomics of these machines offer real user comfort. A range of Fibre Laser sources from 20 W to 50 W, for jobs ranging from precision engraving to the deepest marking and long series runs.

ADDITIONAL MACHINE STAND

Allow the setting of the machine at an ergonomics position for the operator and make the laser system stable. Organize parts to engrave and accessory devices under the machine with a compact floor space.



EXHAUSTS

Our laser extraction and purification systems? Clean, pure, safe



PRECISION

Without proper extraction, particles may build up between the laser and the engraved object. This may deflect the laser beam and impair engraving precision. Gravograph extraction systems keep your equipment dust free, maintaining precision levels and ensuring engraving excellence day after day.



EASY TO MAINTAIN

Our extraction systems are designed to optimise access and facilitate maintenance operations. Gravograph exhausts are equipped with cleanable pre-filters, separate HEPA filter, refillable charcoal cartridges and brushless motors, are very cost effective systems to run.



USER AND PLANET FRIENDLY

Every system in the range complies with international health & safety legislation and RoHS norms. All contaminants are secured in disposable filters. Only clean and pure air is pumped back into the workshop, ensuring premium user comfort.



DESIGNED ESPECIALLY

Our systems provide extraction when marking, engraving and cutting noxious materials. A triple filtration system secures all particles in the filters for the ultimate in user comfort, safety and air purification.

TECHNICAL CHARACTERISTICS

	LS100 ENERGY	LS100	LS100EX
Maximum engraving area (mm)	456 x 305		610 x 305
Max Z clearance (mm)	145		
Laser technology	CO2		
Laser wattage - air cooled (W)	×	35-40-60	
"Laser wattage - water cooled chiller as standard" (W)	25	×	×
Standard features	Air assist - Z motorized table - Front loading opening - Red dot pointer - Auto focus sensor - Print & cut media registration - Embedded laser dash board with LCD screen - Job complete alarm - Buffering memory - Jobs queing - Automatic safety shut off.		
Driver	Gravograph Built in printer driver for 1/3 part graphic software		
Software	Gravostyle™ Laser discovery	Gravostyle™ Laser graphic	
Operating mode	Optimized Raster, High quality raster, Vector, Cutting.		
Max. speed (m/s)	1	2.5	
Size (mm)	755 x 725 x 450		1023 x 725 x 450
Product weight (kg)	42		70
Laser classification	Class 1 - Laser product. Door closed.		
Base stand	×	×	Option
Vector cutting table - honeycomb grid	Option		
Floating pin table	Option		
Option cylindrical attachment	Ø 3 - 130 mm		
Integrated air exhaust in option	LE 120HP - LE140HP		LE150HP
Floor stand external exhaust in option	ES 10 - 30 - 50		
Alternate lenses	2 - 3"		

MORE PRODUCTS
INFORMATIONS

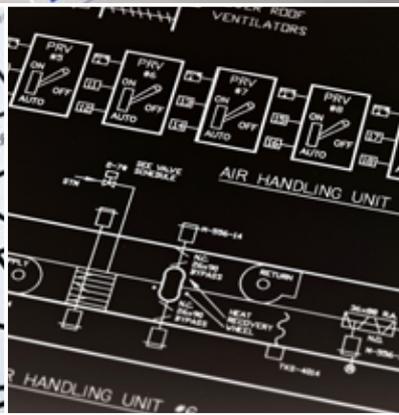
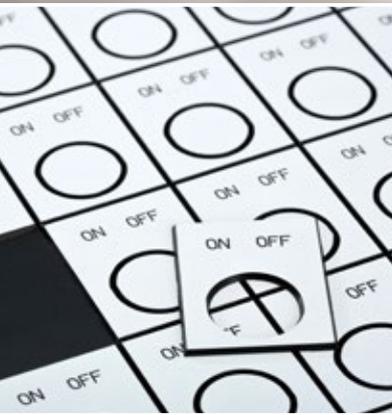


LS900	LS900XP	LS1000XP	LS1000EX FIBER	LS900 FIBER
610 x 610		1220 x 610	456 x 305	610 x 610
250		300	145	250
CO2			Fiber	
35-40-60-80		60-80	20-30	30-50
x	x	100 - 150	x	x
Air assist - Z motorized table - Front loading opening - Red dot pointer - Auto focus sensor - Print & cut media registration - Embedded laser dash board with LCD screen - Job complete alarm - Buffering memory - Jobs queuing - Automatic safety shut off - Thermal sensitivity sensor.				
Gravograph Built in printer driver for 1/3 part graphic software				
Gravostyle™ Laser graphic				
Optimized Raster, High quality raster, Vector, Cutting.				
2.5	4		1.5	
940 x 1065 x 815		1660 x 1160 x 800	1023 x 725 x 450	940 x 1065 x 815
170		300	70	170
Class 1 - Laser product. Door closed.				
Option		included as standard	Option	
Option				
Option				
Ø 3 - 200 mm			Ø 3 - 130 mm	Ø 3 - 200 mm
Lni 900		LE 190 HP	LE 140HP - 150HP	Lni 900
ES 10 - 30 - 50			ES 10 - 30	
2 - 3 - 4"			2 - 3"	2 - 3 - 4"

APPLICATIONS / MARKETS



SIGN & ENGRAVERS



INDUSTRY



MULTISERVICE STORES

MORE GRAVOGRAPH APPLICATIONS



Allow us to introduce you to the capabilities of Gravograph solutions, equipment, materials and accessories. Our creative and industry-specific solutions and equipment cater closely to the needs of our customers. Gravograph is driving innovation in engraving and marking solutions. Our customer intimacy, key axis of our mission, leads the path to constant enhancements and new discoveries. In everyday life, you can find products engraved with a Gravograph solution almost everywhere!



FUNERAL



PERSONALISATION



TROPHIES & AWARDS



WINE & SPIRITS



OUTSTANDING SERVICES

CUSTOMIZATION & ADAPTATION

You want the best service? Gravograph is dedicated to its customers and offers customization and adaptation services.

Adapted or customized, our software can exchange data with any system or send informations directly to the machine. Wether it is holding systems, fixing mechanisms, we adapt the tools to your needs and objects. Specific developments, minor or major, are the ultimate solutions to have the perfect match your requirements.



INSTALLATION & TRAINING

Enjoy the convenience of Gravograph's team to install and implement your solution and help you get the most of your equipment with appropriate training.

Users' needs and uses of the solution evolve over time. Our proximity allows us to always be present to accompany you and your business. Tailored maintenance contracts allow you to extend the reliability and life of your equipment. Software upgrades your machine's capabilities.



EXPERT ADVICE

At Gravograph, we pride ourselves on providing our customers the best way to do what they intend on doing with their solutions. That means the most careful consideration of your applications and requirements.

Experienced teams across 5 continents take the time to set up parameters of your machine preceisley to best accomplish your goals. No matter what your objective is.

QUALITY

The deployment of our quality policy allowed us to initiate an ISO 9001 certification process in 1999 and today our main industrial and commercial facilities are ISO 9001: 2008 certified.



CONSUMABLES FOR LASER SYSTEMS



With thousands of colour combinations and the largest selection of laser engraving materials, Gravograph offers what you need, when you need it. You can also save time and money using our cut-to-size and fabrication services.

Use our fabrication services to get any metal or laminate cut to your exact requirements, whatever shape. Available finishes include bevelling, corner rounding, drilling, slotting or bending. Most materials can be supplied with a self-adhesive backing.

- Metal & plastic ranges for indoor & outdoor use
- Suitable for engraving & cutting applications
- Custom colours available
- Various thicknesses and sheet sizes available
- Custom fabrication to your specifications, on demand
- Expert advice available

		CO2	FIBRE
PLASTICS	Gravoply™ 2		●
	Acrylic	●	
	Flexilase™	●	
	Gravotac™	●	
	Gravoglas™ 1	●	
	Gravoply™ Laser	●	
	Gravoply™ Ultra	●	
	Gravolase™ Metallics	●	
	Metallex™	●	
	Stickalase™	●	
ALUMINIUM	Alumamark™	●	
	Gravoxal™	●	●
	Gravometal™	●	●
	Colored Aluminum	●	●
BRASS	Durablack™	●	●
	Trophy Brass	●	●
	Rubbalase™	●	
	Gravostrat™	●	

	CO2	FIBRE
Gold		●
Platinum		●
Silver		●
Glass, crystal	●	
Cork	●	
Horn	●	
Leather	●	
Paper, cardboard	●	
Fabrics, textile	●	
Fruit, food	●	
Wood, wood veneer	●	
Stone, marble, granite, ceramic	●	
Silicone	●	
Medical & electrical ceramics		●
Titanium, carbide, carbon		●
Fiberglass	●	
Nickel plated		●
Steel, stainless steel		●

FOR MORE INFORMATION,
CHECK OUR E-CATALOGUE



ABOUT GRAVOGRAPH

Gravograph has been the global reference in the mechanical engraving and laser industry for over 75 years. Our expertise as a leader allows us to develop engraving and mechanical and laser cutting machines, accessories, software, engraving materials and to offer training, advice and technical support.

Thanks to systematic research into the best technology, Gravograph equipment is synonymous with manufacturing quality, ease and speed of use.

As a brand of the Gravotech group, Gravograph benefits of a global network in more than 100 countries.

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Providing quality, user-dedicated and productivity-driven solutions to our customers drives our development and teams everyday.

”

Gérard Guyard - Group chairman & CEO



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