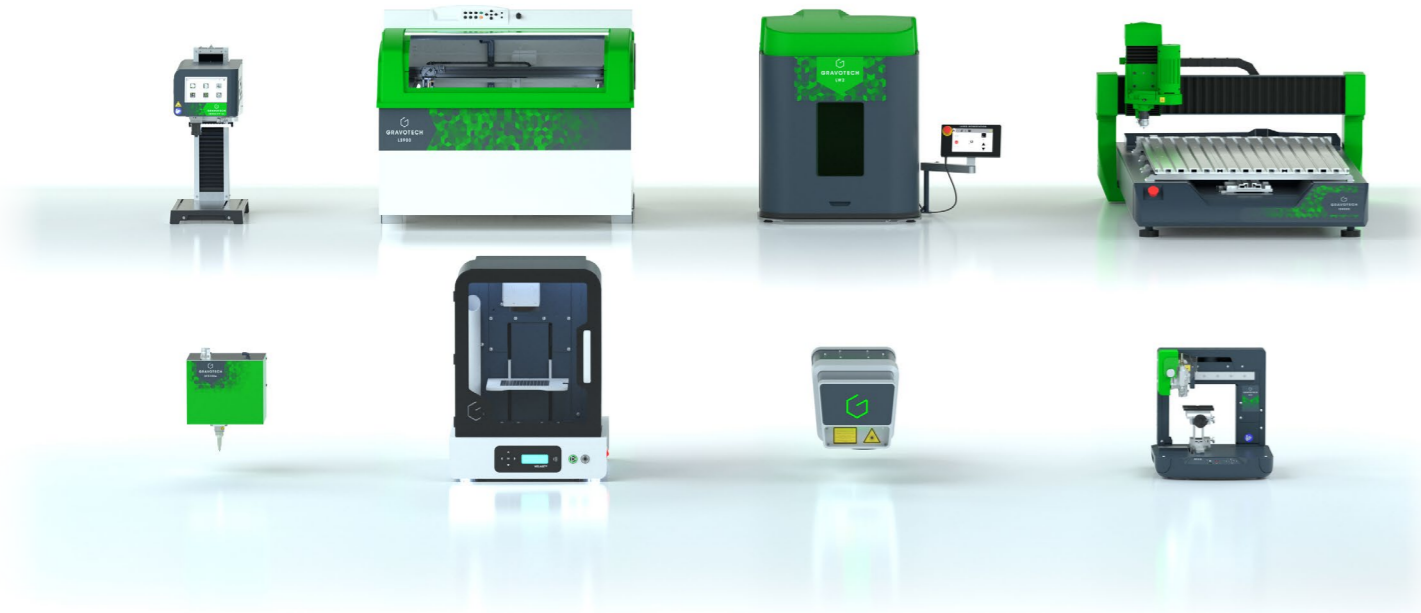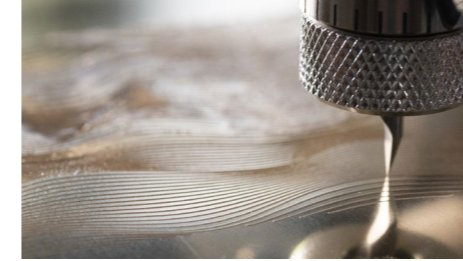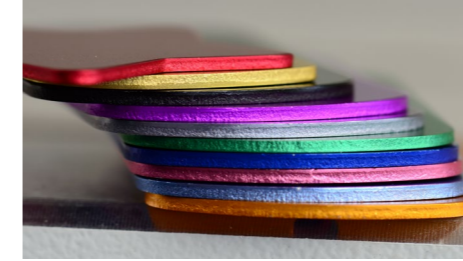# ENGRAVING & MARKING OVERVIEW

CONSUMABLES

Our material range has been specially developed for engraving and cutting. "Surface" or "reverse" engraving, laser marking or cutter engraving, also compatible with digital printing, all our ranges of plastic, metal or stratified materials are available in a spectrum of colours, thicknesses, and finishes.

Laser materials

Rotary materials

Engravables

Signage

Cutters & Inserts

Engraving supplies

SOFTWARE

Our engraving and cutting expertise lead us to build our own software. Create your engraving and cutting paths, pilot your machines, design your 3D jewelry, Anything is possible!

ABC
ABC software is the easiest engraving software for Gravotech laser and rotary machines. Engrave in only 3 simple steps, from a computer or a tablet!
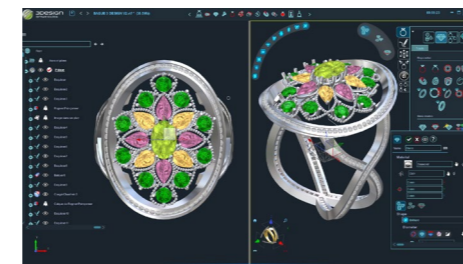

GRAVOSTYLE™
One-of-a-kind piloting software for Gravotech laser and rotary engraving machines.

LASERTRACE
Lasertrace is the Gravotech industrial software for traceability and identification. Various functions are available in a simple and friendly interface, for all industrial production needs.
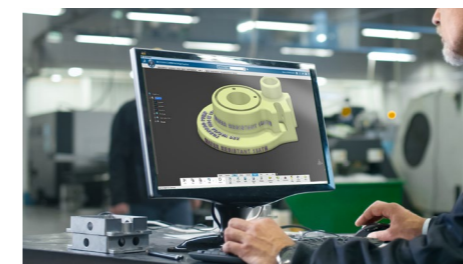

3DESIGN
Cutting edge 3D software for jewelry design that will keep your business ahead.

TYPE EDIT
For over 30 years, TYPE EDIT is the complete CAD/CAM software solution. Taking your ideas and drawings, through design and machining to production.

TYPE3-CAA
TYPE3-CAA is the only add-on available in CATIA ® environment for text creation and mapping.

SERVICE & SUPPORT

With our direct presence in over 50 countries, we always have a marking and engraving expert close to you to bring their expertise and know-how in qualifying your application, installing your equipment and training your collaborators.

Training

Technical Support

Maintenance

THE EXPRESSION OF THINGS

Humans have a unique quality: to be able to express themselves. With the cutting-edge technologies that we master for permanent marking and engraving, we are giving this power to objects.

Laser, mechanical engraving, scribing and dot peen: we are the only ones to pioneer and master all these types of marking.

We are a manufacturer of machines, CAD software and Consumables with support all over the world.

The result of the integration of pioneering technologies, we are constantly exploring new solutions to innovate and shape the future of the Expression of Things.

We know the entire chain, from creation to production and service to provide you with the offer, best suited to your needs.

Gravotech was born in 2008 from the merger of Gravograph, Technifor and Type3 and unified under one brand in 2021.

Gravotech in video

GRAVOTECH
EXPRESSION OF THINGS

contact@gravotech.com
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www.gravotech.com

GRAVOTECH MARKING
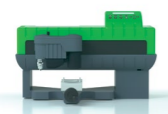466 rue des Mercières - Z.I. Perica
69140 Rilleux-la-Pape France

Follow us

GRAVOTECH
EXPRESSION OF THINGS

CNC TABLES

IS200 — Small signage and identification engraving machine

IS400 / IS400 VOLUME — One of a kind metal engraving machine

ISx000 — The large format CNC engraving machine

LASER TABLES

LS100 — CO2 laser engraver for signage, creative cutting, and personalization

LS100EX — The signage and small series laser engraving machine

LS900 — The large laser engraver that can do everything

LS1000XP — Large laser engraving and cutting machine for high productivity *(LIMITED EDITION)*

INTEGRABLE LASER MARKERS

FIBER — Integrated laser marking system for metal and plastic parts

HYBRID — The best compromise between versatility, high quality and high speed to meet all your marking needs

GREEN — Integrated laser marking system to mark highly reflective materials and sensitive plastic materials

CO2 — High-speed laser engraver: the best to mark organic materials and coated surfaces

CNC TABLES / LASER TABLES specifications

	IS200	IS400 / IS400 VOLUME	ISx000		LS100	LS100EX	LS900	LS1000XP
Application scope	●●	●●●●	●●●	Application scope	●●●	●●●	●●●	●●●●
Technology	Rotary, scribing	Rotary, scribing	Rotary, scribing	Laser source	CO2	CO2, Fiber	CO2, Fiber, Edge	CO2
Marking area max. (L x H)	225 x 80 mm (9 x 3 in)	305 x 210 mm (12 x 8 in)	IS6000: 610 x 410 mm (24 x 16 in) IS7000: 610 x 815 mm (24 x 32 in) IS8000: 610 x 1220 mm (24 x 48 in)	Power (W)	25 - 40 - 60	CO2: 25 - 40 - 60 CO2 Energy: 25 Fiber: 20 - 30	CO2: 40 - 60 - 80 Fiber: 20 - 30 - 50 Edge: (CO2: 40 / Fiber: 20 - 30 - 50)	60 - 80 - 100 - 150
Spindle power	20 W	90 W (optional spindle: 150 W)	90 - 200 W (optional spindle: 150, 750, 1k W)	Marking area max. (L x H)	460 x 305 mm (18 x 12 in)	610 x 305 mm (24 x 12 in)	610 x 610 mm (24 x 24 in)	1220 x 610 mm (48 x 24 in)
Max. object height	30 mm (1.2 in)	IS400: 105 mm (4 in) IS400 Volume: 400 mm (15.75 in)	80 mm (3 in)	Lenses (in)	1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0	1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0	1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0	2.0 - 3.0 - 4.0
				Max. object height	145 mm (5.7 in)	145 mm (5.7 in)	250 mm (9.8 in)	300 mm (11.8 in)

INTEGRABLE LASER MARKERS specifications

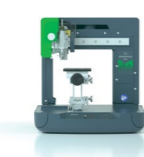|	FIBER	HYBRID	GREEN	CO2
Application scope	●●	●●	●●	●●
Wavelength (nm)	1 064	1 064	532	10 600
Power (W)	Fiber: 20 - 30 - 50 Fiber Energy: 20 - 30	10 - 20	5 - 10	30
Process automation	Industrial Ethernet Networks: PROFINET / ETHERNET IP			
Embedded intelligence	Autonomous / Programmable by PLC / No PC required / Traceability Management			
Laser classification	Class 4 Laser system, possibility to switch in Class 1 for integration on a station or equipped with Mini Inline module.			

ENGRAVING STATION

IM3 — The iconic pantograph by Gravotech

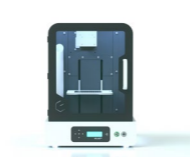**M10 JEWEL** — Compact ring and bracelet engraving machine

M20 — Custom engraving for all kind of purposes, from jewelry and perfume to small industrial signage

M40/M40GIFT — Multi-purpose rotary engraving machine for signage and gifts

LASER STATIONS

WELASE™ — Small laser engraving station

LW2 TOUCH — Fully automated laser marking station

DOT PEEN STATION

IMPACT — Benchtop dot peen marking station

INTEGRABLE DOT PEEN & SCRIBING

XF510 p — The fastest pneumatic dot peen marking machine on the market

XF510 m — The precise and consistent electromagnetic dot peen marking machine

XF510 r — The quiet metal marking machine

XF530 — Deep and indelible dot peen marking

ENGRAVING STATION / LASER STATIONS / DOT PEEN STATION specifications

	IM3	M10 JEWEL	M20	M40/M40GIFT		WELASE™	LW2 TOUCH		IMPACT
Application scope	●●	●	●●●●	●●●	Application scope	●●	●●	Application scope	●
Technology	Rotary, scribing	Scribing	Rotary, scribing	Rotary, scribing	Laser source	Fiber, Hybrid, Green, CO2	Fiber, Hybrid, Green	Technology	Dot peen Pneumatic or electromagnetic
Marking area max. (L x H)	250 x 140 mm (9.9 x 5.5 in)	-	100 x 100 mm (4 x 4 in)	305 x 210 mm (12 x 8 in)	Use rate	Adapted for small to medium batches	Fully automatic Adapted for high use rate	Software	Integrated traceability software with colour touchscreen
Spindle power	50 W		30 W	30 W	Marking area max. (L x H)	110 x 110 mm (4.3 x 4.3 in)	Up to 205 x 205 mm (8 x 8 in)	Marking area max. (L x H)	100 x 120 mm (4 x 4.7 in)
Max. object height	50 mm (2 in)	ø 12.5 - 80 mm (0.5 x 3.15 in)	100 mm (4 in)	110 mm (4.3 in)	Max object Height	Fiber, Hybrid, Green: 100 mm (4 in) CO2: 180 mm (7 in)	Up to 322 mm (12.7 in)	Z axis stroke	300 mm (11.8 in)
Dimensions (L x W x H)	580 x 510 x 280 mm (22.8 x 20 x 11 in)	230 x 293 x 290 mm (9 x 11.5 x 11.4 in)	375 x 350 x 360 mm (14.8 x 14 x 14.2 in)	550 x 510 x 320 mm (27.7 x 20 x 12.6 in)	Max object Weigth	3 kg (6.6 lbs)	25 kg (55 lbs)	Z axis type	Manual or Motorized & programmable

INTEGRABLE DOT PEEN & SCRIBING specifications

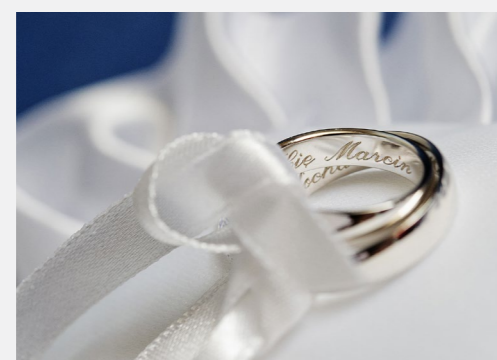|	XF510 p	XF510 m	XF510 r	XF530
Application scope	●	●	●	●
Technology	Dot peen Pneumatic	Dot peen Electromagnetic	Scribing	Dot peen Pneumatic or Electromagnetic
Main advantage	Speed	2D codes	Quiet	Deep marking
Marking area max. (L x H)	Cp: 50 x 20 mm (2 x 0.8 in), Sp: 100 x 80 mm (4 x 3.15 in), Dp: 200 x 80 mm (7.9 x 3.15 in)	Cm: 50 x 20 mm (2 x 0.8 in), Sm: 100 x 80 mm (4 x 3.15 in), Dm: 200 x 80 mm (7.9 x 3.15 in)	Cr: 40 x 50 mm (1.6 x 2 in), Sr: 80 x 50 mm (3.15 x 2 in), Dr: 160 x 50 mm (6.3 x 2 in)	200 x 50 mm (7.9 x 2 in)
Material hardness (HRC)	< 62	< 62	< 62	< 62

APPLICATIONS OF ENGRAVING, MARKING AND CUTTING

Look around you and you'll notice that most objects around you are marked, engraved or customized. Find them and you'll find Gravotech!

- ● Identification
- ● Personalization
- ● Signage
- ● Creative
- ● Manufacturing

Our applications

CONTROL UNIT

XCOM

CONNECTED TOUCH-SCREEN CONTROLLER

XCOM is the solution to pilot dot-peen and scribing machines and to control their integration on production lines. Connected to the main 4.0 industrial environments, XCOM is the most communicative and autonomous control unit on the market.

Want to know more?