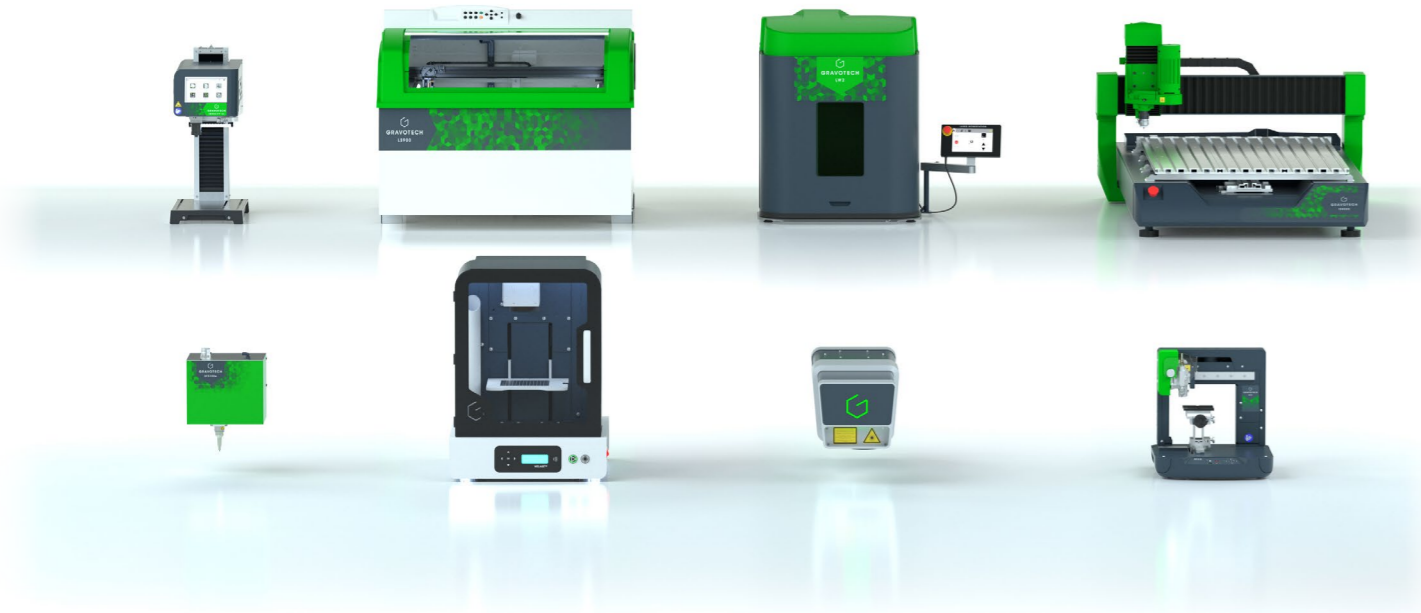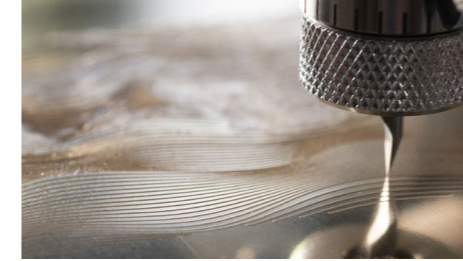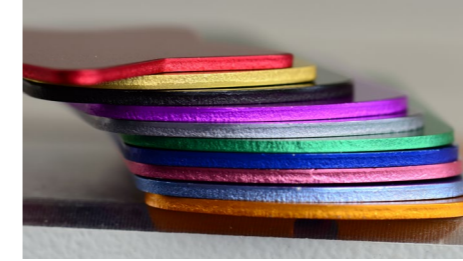# ENGRAVING & MARKING OVERVIEW

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!
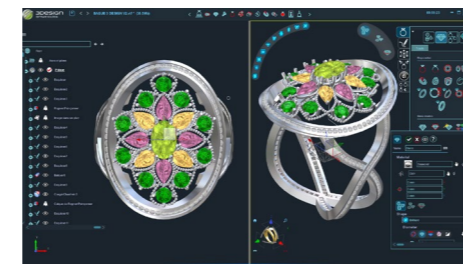

GRAVOSTYLE™

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.
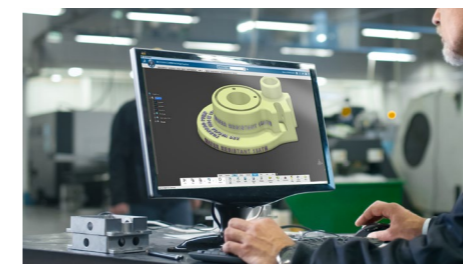

3DESIGN

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.
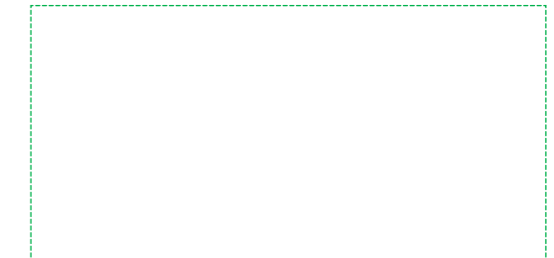
Gravotech in video

GRAVOTECH
EXPRESSION OF THINGS

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Rydalmere 2116, NSW, Australia

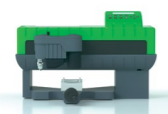**Distributed by:**

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BENCHTOP MACHINES

INTEGRABLES MACHINES

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

INTEGRABLE LASER MARKERS

FIBER
Integrated laser marking system for metal and plastic parts
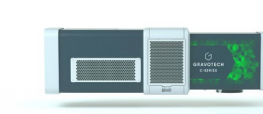
HYBRID
The best compromise between versatility, high quality and high speed to meet all your marking needs

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

Application scope	🟣🟠	🔵🟣🟠🟡⚫	🟠🔴⚫
Technology	Rotary, diamond dragging	Rotary, diamond dragging	Rotary, diamond dragging
Max. marking area (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)
Spindle power	20 W	90 W (optional spindle: 150 W)	90 - 200 W (optional spindle: 150, 750, 1k W)
Max. object height	30 mm (1.2 in)	IS400: 105 mm (4 in) IS400 Volume: 400 mm (15.75 in)	80 mm (3 in)

Application scope	🟣🟠🔴	🟣🔴⚫	🟣🔴⚫
Laser source	CO2	CO2, Fiber	CO2, Fiber, Edge
Power (W)	25 - 30 - 40 - 60	CO2: 25 - 30 - 40 - 60 CO2 Energy: 25 Fiber: 20 - 30	CO2: 40 - 60 - 80 Fiber: 20 - 30 - 50 Edge: (CO2: 40 / Fiber: 20 - 30 - 50)
Max. marking area (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)
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
Max. object height	145 mm (5.7 in)	145 mm (5.7 in)	250 mm (9.8 in)

Application scope	🔵⚫	🔵⚫	🔵⚫	⚫
Wavelength	1 064 nm	1 064 nm	532 nm	10 600 nm
Power	Fiber: 20 - 30 - 50 W Fiber Energy: 20 - 30 W MOPA*: 20 - 30 - 60 W	10 - 20 W	5 - 10 W	30 W
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.			

Laser protection nose — MINI-INLINE
Simplify your laser marking machine integration with our Mini-inline: this laser safety concept protects the laser beam and facilitates particle extraction while freeing you from the costs and constraints of a class 1 laser enclosure.

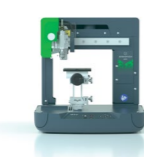*MOPA laser is sold in China, Japan, Australia and India

ENGRAVING STATION

IM3
The iconic pantograph by Gravotech

M10 JEWEL
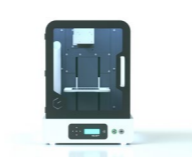Compact ring and bracelet engraving machine

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
Fully automated laser marking station

LW3
Fully automated high volume industrial laser station

INTEGRABLE DOT PEEN

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

XF510 m
The precise and consistent electromagnetic dot peen marking machine

XF530 p/m
Deep and indelible dot peen marking

Application scope	🟣🟠	🟣	🟣🔵🟠🔴	🟠🔵🟠
Technology	Rotary, scribing	Scribing	Rotary, scribing	Rotary, scribing
Max. marking area (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)
Spindle power	50 W	-	30 W	30 W
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)
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)

Application scope	🔵⚫	🔵⚫⚫	🔵⚫⚫
Laser source	Fiber, Hybrid, Green, CO2	Fiber, Hybrid, Green	Fiber, Hybrid, Green
Use rate	Adapted for small to medium batches	Fully automatic Adapted for high use rate	Fully automatic Adapted for high production rates and large parts
Max. marking area (L x l)	110 x 110 mm (4.3 x 4.3 in)	Up to 205 x 205 mm (8 x 8 in)	Up to 875 x 300 mm (34 x 12 in)
Max. object height	Fiber, Hybrid, Green: 100 mm (4 in) CO2: 180 mm (7 in)	Up to 322 mm (12.7 in)	Up to 628 mm (24.72 in)
Max. object weigth	3 kg (6.6 lbs)	25 kg (55 lbs)	50 kg (110.23 lbs)

Application scope	🔵	🔵	🔵
Technology	Dot peen Pneumatic	Dot peen Electromagnetic	Dot peen Pneumatic or Electromagnetic
Main advantage	Speed	2D codes	Deep marking
Max. marking area (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)	200 x 50 mm (7.9 x 2 in)
Material hardness (HRC)	< 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 🟣 Personalisation 🟠 Signage 🔴 Creative ⚫ Manufacturing

DOT PEEN STATION

IMPACT
Benchtop dot peen marking station

Application scope	🔵
Technology	Dot peen pneumatic or electromagnetic
Software	Integrated traceability software with color touchscreen
Marking area max. (L x H)	100 x 120 mm (4 x 4.7 in)
Z axis stroke	300 mm (11.8 in)
Z axis type	Manual or motorized & programmable

Want to know more ?

INTEGRABLE SCRIBING

XF510 r
The quiet metal marking machine

SV530
The VIN scribing marking machine

Application scope	🔵	🔵
Technology	Scribing	Scribing
Main advantage	Quiet	Deep marking
Max. marking area (L x H)	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)	120 x 40 mm (4.72 x 1.6 in)
Material hardness (HRC)	< 62	< 62