



**GRAVOTECH**

EXPRESSION OF THINGS



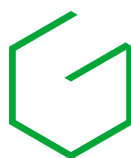
**ENGRAVING**

**SOURCE BOOK**

Your source for all engraving materials, supplies and fabrication services.

V6.0





# GRAVOTECH

EXPRESSION OF THINGS

## Gravotech, the Expression of Things : a culture of excellence

Gravotech is the world's leading manufacturer of marking solutions. Born from the merger of the Gravograph and Technifor brands, we offer a full range of equipments and technologies: rotary, dot peen and scribing engraving machines, CO2, Fiber, Green and Hybrid lasers as well as a wide selection of engraving materials, consumables and services.

This success is built on three fundamentals:

- A primary focus on our customers' needs,
- Continually delivering state of the art solutions,
- Efficient customer service with over 720 employees worldwide. Gravotech team members are based in over 40 countries around the world, working to provide you with the best possible solutions for your marking, engraving and cutting needs as quickly as possible.

The Gravotech difference is founded on:

- A complete solution approach: the Gravotech product offer lends itself to a full range of personalisation, signage and traceability applications,
- A complete technology solution: machines, software, accessories and consumables,
- A complete technical support solution: readily available in the field and by phone.

- A complete training solution: on-site training or on Gravotech premises, phone support from engraving experts.

The comprehensive Gravotech product line includes:

- The world's largest and most innovative range of CNC machines,
- CO2, Fiber, Hybrid and Green laser marking systems,
- Versatile dot-peen engraving systems,
- Innovative software dedicated to the engraving industry, designed to optimize Gravotech machines,
- The most complete range of materials and engravables on the market,
- Responsive in-house manufacturing services.

At Gravotech, we develop and market the world's most durable and highest quality marking solutions, while exceeding the engraving industry's standards for product and service performance.

Our quality management system ensures that our products and services are constantly improved and that all members of our team are committed to providing you with the best possible service.

Watch our video!



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# Gravotech engraving materials

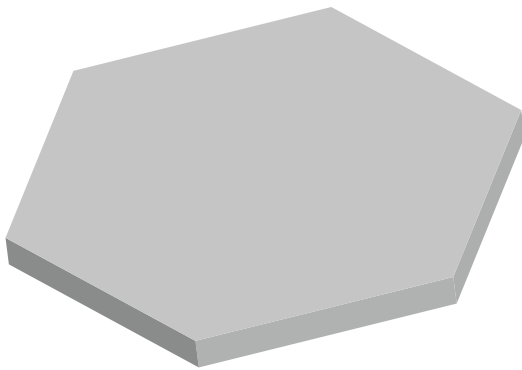
## WHAT IS AN ENGRAVING MATERIAL?

Gravotech has been developing its own plastic materials for over 50 years. A material is an assembly of several layers of plastic of different colours. The principle is the same for laser marking or rotary engraving: by removing a part of the upper layer, the lower layer is revealed and another colour appears for

a contrasted engraving. A text, a drawing, a logotype, a pictogram can be drawn. In order to meet all your applications, our offer is composed of materials made of different kind of assemblies.

### 1-PLY

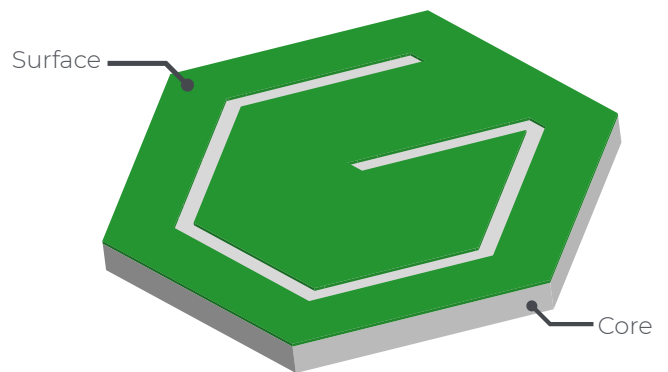
For cutting, no engraving



1 layer, 1 colour

### 2-PLY

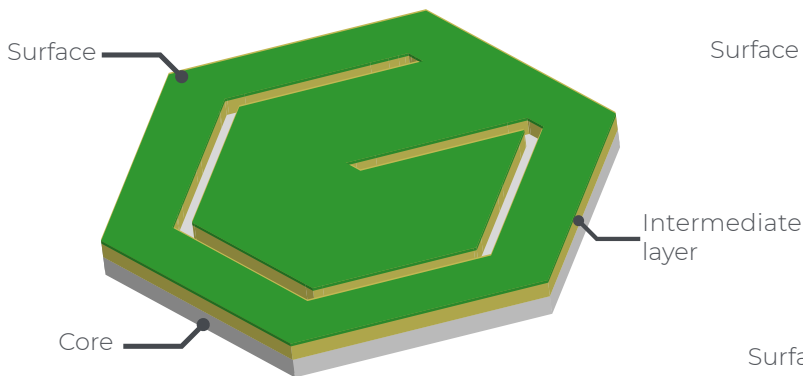
The most standard design



2 layers, 2 colours

### 3-PLY

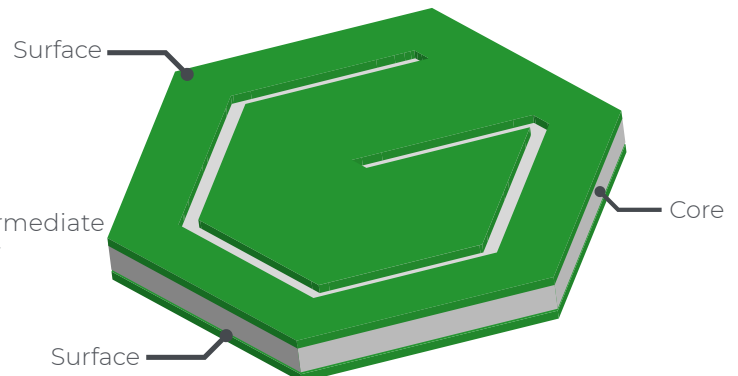
An exception dedicated to safety signage



3 layers, 3 colours

### DOUBLE-SIDED

Can be engraved on both sides

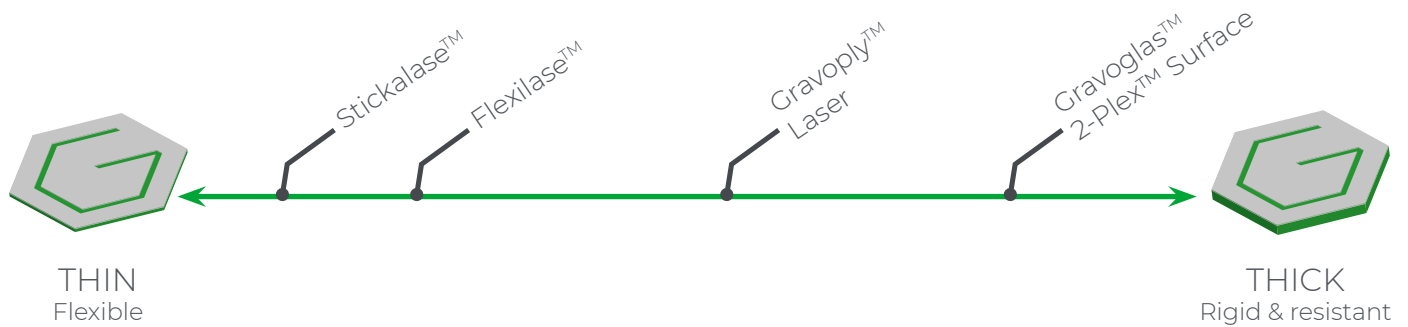


3 layers, 2 colours on each side

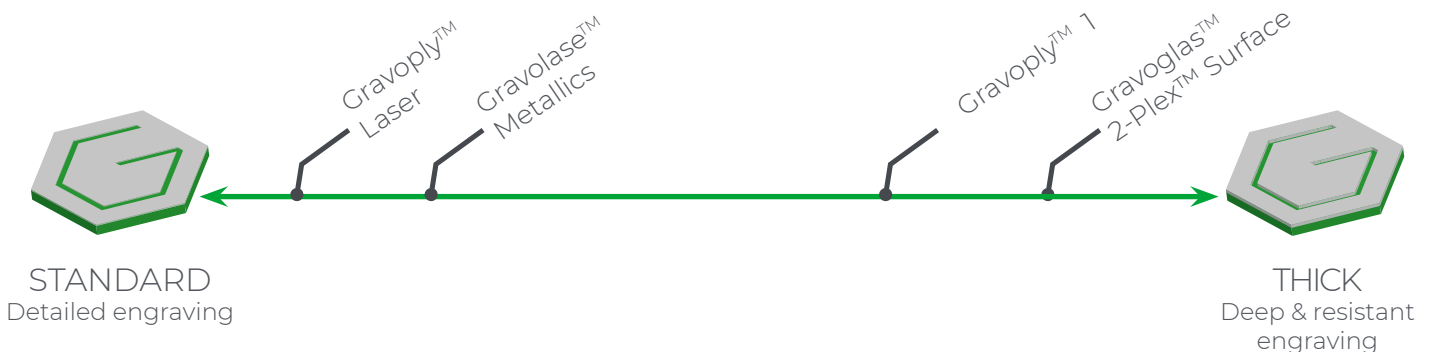
## CONSTRUCTION

The lower layer is called the core and the upper layer the surface. By varying the thickness of the core and the surface, it is possible to achieve different engraving and cutting results to meet different requirements.

### CORE THICKNESS



### SURFACE THICKNESS



### CORE COMPOSITION

The base composition of the core is selected to provide specific properties.

PMMA cores are the most popular: versatile, they ensure a great longevity and resistance to the environment (weathering, industrial conditions...).

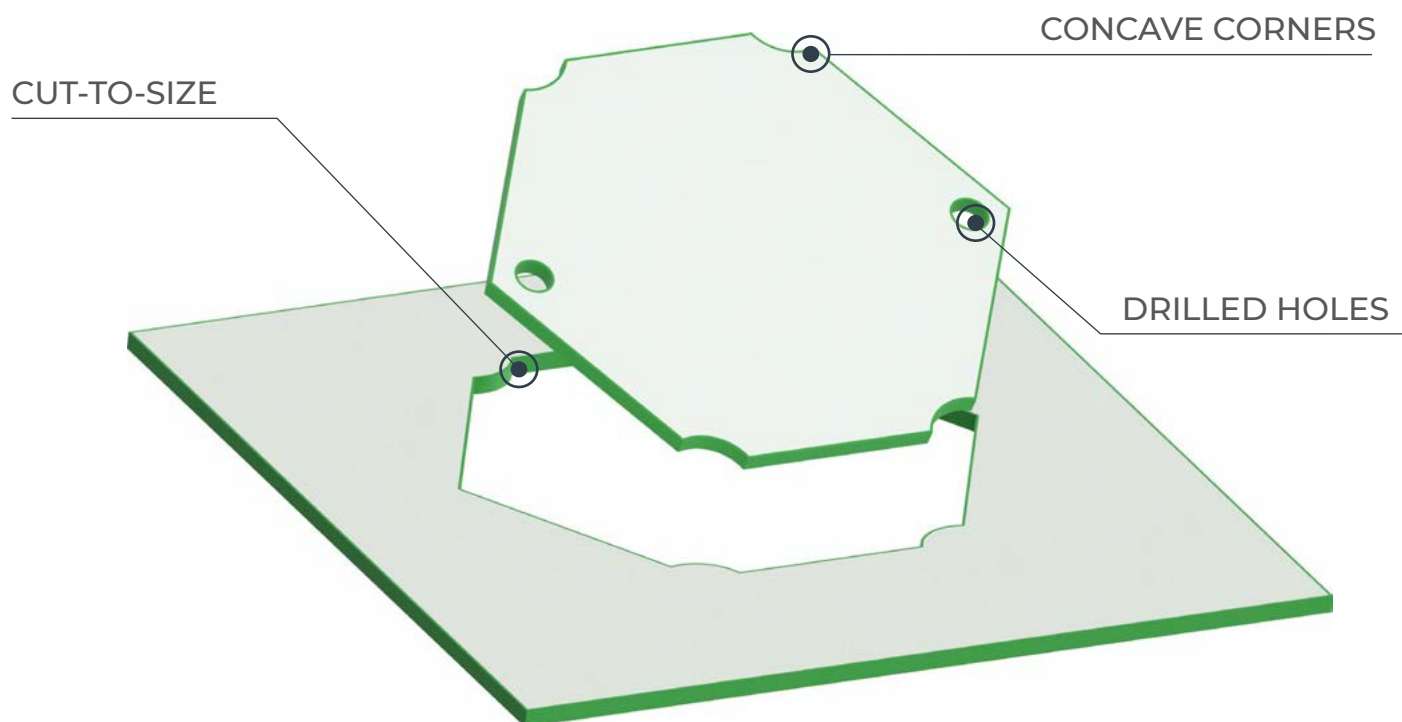
They can be used with laser and mechanical machines.

ABS cores are more economical and provide a certain flexibility of the material.

Dedicated to indoor use, they are usually rotary cut.

# Custom fabrication services

Save time and money by using our custom fabrication services that will meet your most demanding needs.



## SHAPES

Custom fabricated shapes made to your specifications on demand.



## BEVELLING

Bevelling is cutting a border with an angular edge to obtain a better finish. Our standard angle is 45°.



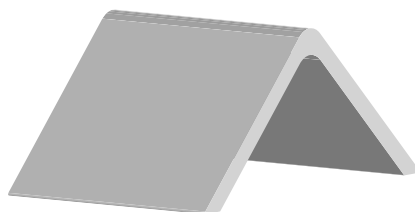
## DRILLED HOLES

To accommodate your mounting needs in plastic and metal.



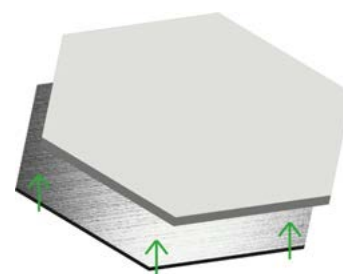
## ROUNDED / CONCAVE CORNERS

We offer a wide selection of different radius for corners.



## BENDING

Plastic materials can be bent into stand-up display signs, badges, etc. Maximum length of the bend is 500 mm (20").



## BACKING

**Adhesive:** 467MP or 468MP available depending on the roughness of the substrate.

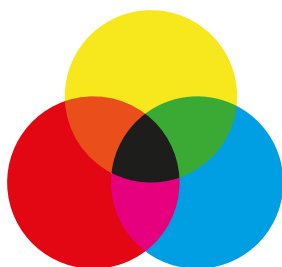
**Magnetic:** For temporary mounting of information tags on metal shelves, we can apply magnetic backing to the plates, strips and sheets.



# Custom materials on demand

Cannot find the plastic product you are looking for? Gravotech is able to supply material based on your specifications.

## COLOUR MIXING



Gravotech provides any colours combination!

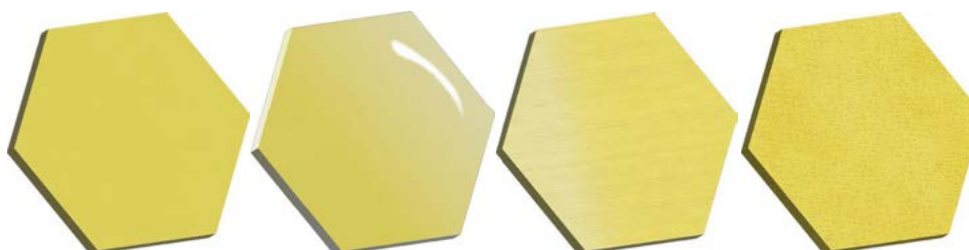
Mix any surface colour with any of our core colours. You can also provide us with a RAL or PANTONE® code to better match your needs.

## SPECIFIC THICKNESS

Your application requires a specific material thickness?

Let us know your requirements and we will produce a material adapted to your needs.

## SURFACE FINISH



Matte

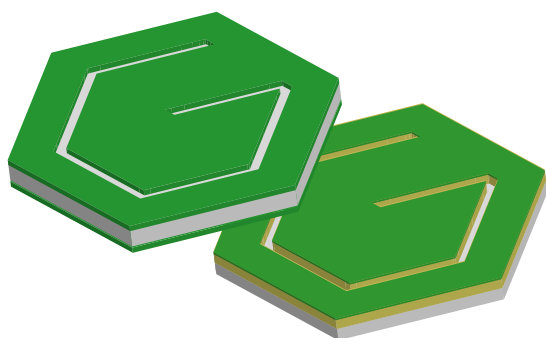
Glossy

Satin

Textured

Choose from our 4 finishes, we can apply them to the majority of our plastic materials.

## DOUBLE-SIDED AND 3-PLY MATERIAL



We can also produce double-sided material if your application requires it. Different colours on both sides possible.

Our Gravoply™ 3C range offers the most used colours. However we can produce up to 2,000 colour combinations on demand.

### Quotation

For all these services, please ask your Gravotech partner for a quotation!

### Lead-time

Fabrication times are only estimates, and may vary according to production load.

### Return policy

All custom fabrication orders are non-returnable due to their custom nature. Please ensure that you provide accurate information when placing your fabrication order.

# Communication tools

Gravotech offers a multitude of marketing tools to help you select the right engraving material for your needs and promote your business.



## ENGRAVING SOURCE BOOK & E-CATALOG

Your source for all engraving materials, supplies and fabrication services.

Engraving Source Book: Ref. 86586



## ENGRAVING MATERIALS POSTER

Wall poster with overview of our whole range of materials.

Ref. 71938



## «SWATCHY» SAMPLES

Physical samples of Gravotech's key materials.

Gravoply™ Laser: Ref. 86494

Gravolase™ Metallics: Ref. 86497

Flexilase™: Ref. 86495

Acrylic: Ref. 86493

Laser Wood: Ref. 86496



## TECHNICAL & SAFETY DATA SHEETS

Our materials have a technical datasheet and a safety datasheet. You can find these documents on a dedicated page on our website.



# Our YouTube videos & playlists

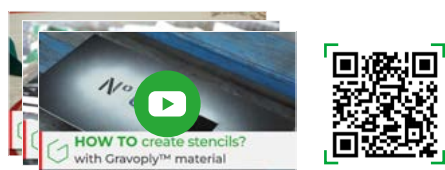
Discover our consumables videos on our YouTube channel.



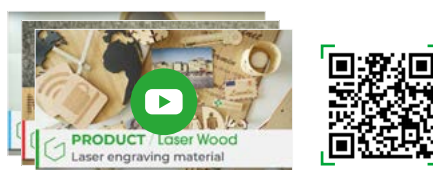
**GRAVOGLAS™ 1**



**GRAVOPLY™ ULTRA**



**GRAVOPLY™ LASER**



**LASER WOOD**



**ACRYLIC**



**CONSUMABLES**

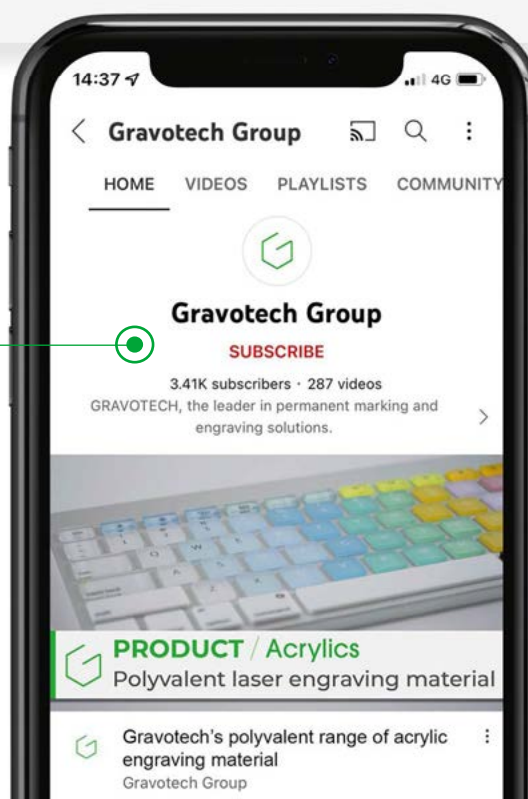


## OUR LATEST CONSUMABLES VIDEOS

Find our product releases, our news and our latest tips about our engraving materials and other consumable products in video on YouTube by flashing this QR code.



Subscribe to our  
YouTube channel  
to see more !





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## SELECTION GUIDE

# LASER MATERIALS

		PLASTICS			ACRYLICS			FLEXIBLE		
		Gravoply™ Laser	Gravoply™ Ultra	Gravoply™ 2	Gravoglas™ 1	Acrylic	Ecocut Laser	Rubbalase™	Flexilase™	
ENGRAVING SYSTEM	CO2 laser engraving	■	■	■	■	■		■	■	
	CO2 laser cutting	■	■		■	■	■	■	■	
	Rotary	■	■	■	■	■	■		■	
	UV Print	■	■	■	■	■	■		■	
SPECIFICATIONS	Surface finishing	Matte	■	■		■			■	
		Brushed							■	
		Glossy			■	■			■	
		Satin								
		Textured								
	Composition	Acrylic	■	■	■	■	■		■	
		ABS		■						
		Aluminium								
		Brass								
		PVC								
		Phenolic								
		Rubber						■		
		Natural Plywood								
CAPABILITIES	Surface engraving	■	■	■		■		■	■	
	Subsurface engraving				■	■				
	Interior	■	■	■	■	■	■	■	■	
	Exterior	■	■		■	■	■		■	
	Shear	< 1.3 mm	< 1.3 mm	< 2.4 mm			< 1.3 mm		■	
	Saw	■	■	■	■	■	■			
	Silk-screen	■	■	■	■	■	■			
	Hot-stamping	■	■	■	■	■	■			
	Heat bending	■	■	■	■	■	■			
	Scratch resistant		■		■	■				
	Flexible	■	■	■			■	■	■	
	Break resistant			■		■		■		
	UV resistant	■	■		■	■	■		■	
	Min. temperature	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
	Max. temperature	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (-176°F)	80°C (176°F)	
Page >		18	19	20	21	22-25	26	27	28	

FOILS		METALLICS	METALS				PHENOLICS	ADA	WOOD
	Stickalase™	Gravolase™ Metallics	Colored Aluminum	Gravoxal™	AlumaMark®	DuraBlack®	Gravostrat™	Gravotac™ Exterior	Laser Wood
	■	■		■	■	■	■	■	■
	■	■						■	■
		■	■	■			■	■	■
	■	■		■	■		■	■	■
	■	■		■		■		■	■
		■							
		■	■	■			■		
			■		■				
	■	■						■	
			■	■	■	■			
							■		
									■
	■	■	■	■	■	■	■		■
		■	■	■	■	■			
	■	■	■	■	■	■	■	■	■
		■	■	■	■	■		■	
		■	■		■		■	■	■
		■						■	
			■	■		■	■	■	
	■	■		■	■			■	■
	■		■	■	■		■	■	
				■		■		■	■
	-60°C (-76°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-200°C (-328°F)
	200°C (392°F)	80°C (176°F)	100°C (212°F)	200°C (392°F)	230°C (450°F)	370°C (700°F)	80°C (176°F)	80°C (-176°F)	100°C (212°F)
	29	30	31	32-33	34	35	36	37	38



**GRAVOTECH**  
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## SELECTION GUIDE

# ROTARY MATERIALS

		PLASTICS					ACRYLICS		
		Gravoply™ 1	Gravoply™ 2	Gravoglas™ 2-Plex™ Surface	Gravoply™ 3C	Ecocut	Gravoglas™ 2-Plex™ Subsurface	Acrylic	
ENGRAVING SYSTEM	CO2 laser engraving		■					■	
	CO2 laser cutting							■	
	Rotary	■	■	■	■	■	■	■	
	UV Print	■	■	■	■	■	■	■	
SPECIFICATIONS	Surface finishing	Matte	■	■	■		■	■	
		Brushed	■		■				
		Glossy		■			■	■	
		Satin	■						
		Textured		■					
	Composition	Acrylic		■			■	■	
		ABS	■	■	■	■			
		Aluminium							
		Brass							
		PVC							
		Phenolic							
		Rubber							
		Natural Plywood							
CAPABILITIES	Surface engraving	■	■	■	■			■	
	Subsurface engraving						■	■	
	Interior	■	■	■	■	■	■	■	
	Exterior			■			■	■	
	Shear	< 2.4 mm	< 2.4 mm	< 1.3 mm	< 1.3 mm	< 2.4 mm	< 1.3 mm		
	Saw	■	■	■		■	■	■	
	Silk-screen	■	■	■	■	■	■	■	
	Hot-stamping	■	■	■	■	■	■	■	
	Heat bending	■	■	■	■	■	■	■	
	Scratch resistant	■		■			■	■	
	Flexible	■	■		■	■			
	Break resistant	■	■		■	■		■	
	UV resistant			■	■		■	■	
	Min. temperature	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	
	Max. temperature	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	
Page >		40	41	42-44	45	46	47	48-51	



# Symbols

To quickly identify and select the right material for your application, look out for the symbols indicating the main features of each Gravotech material range:

## TECHNOLOGY



### LASER ENGRAVING

This material can be engraved with a CO2 laser machine. In general, all our acrylic materials can be engraved and cut with a CO2 laser.



### ROTARY ENGRAVING

This material can be engraved with a rotary machine. In general, all our materials made of ABS can be engraved and cut with a cutter.



### UV PRINTING

This material supports UV printing on its surface.

## ENGRAVING SIDE



### SURFACE ENGRAVING

1-ply, 2-ply or 3-ply materials are either laser or rotary engraved to expose the core of the material, thereby giving a colour contrast between cap (surface layer) and core (base colour).



### SUBSURFACE ENGRAVING

Applies to 1-ply and 2-ply clear base materials. The material is either laser or rotary engraved from the back. Once lasered or engraved, the characters and logos can be back-painted to achieve aesthetic colour contrast.

## USE



### OUTDOOR USE

This material has been designed to resist climatic variations and ultraviolet exposure. It is therefore suitable for outdoor use within the technical specifications given by Gravotech. The wide variety of applications does not allow us to define a shelf life for the product.



### INDOOR USE

This material was designed for indoor use and does not require resistance to ultraviolet and climatic variations.





# LASER MATERIALS

# GRAVOPLY™ LASER

Flexibility and performance for indoor and outdoor applications

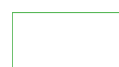


Watch our videos !

Surface colour	Core colour	Thickness		
		0.8 mm (1/32")	1.3 mm (0.050")	1.6 mm (1/16")
white	red		51006	70005
white	blue		51011	
white	black	51017	49971	69991
yellow	red		51007	70006
yellow	blue		51012	
yellow	black	51018	49973	69992
orange	white	51035	51005	80767
orange	black	51020	51001	80768
red	white	51034	49988	69995
red	yellow		51009	
burgundy	white	51043	49997	70004
burgundy	gold		51016	
purple	white	67005	67006	80771
apple green	white	51042	49996	70003
pine green	white	51039	49995	70002
sky blue	white	51037	49990	69997
sky blue	black	51021	49979	69993
blue	white	51036	49989	69996
blue	yellow		51010	
air force blue	white	51038	49991	69998
brown	white	51044	49993	70000
grey	white	51046	49992	69999
grey	black	51023	49974	80774
black	white	51033	49987	69994
black	yellow		51008	
black	gold		51014	

- The most versatile plastic material: indoor and outdoor, laser and rotary engraving and cutting.
- Microthin surface layer for detailed engraving.
- Cost effective: one product, one stock, many applications.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

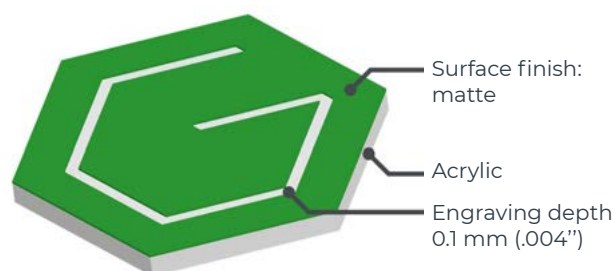


610 x 610 mm  
24 x 24"

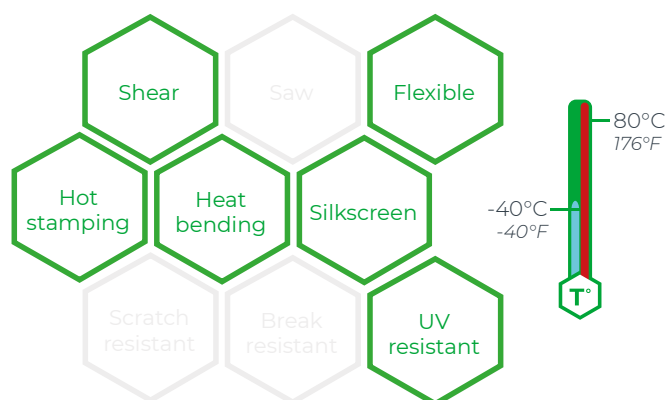


610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Outdoor signage



Small labels and plates



Industrial signage



Architectural signage

# GRAVOPLY™ ULTRA

Effectiveness, productivity, precision and durability

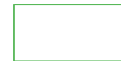


Watch our videos!

Surface colour	Core colour	Thickness	
		0.5 mm (0.020")	1.6 mm (1/16")
white	black	18946	18984
yellow	black	18955	18993
orange	white		19000
orange	black		29499
red	white	18949	18987
red	black		29498
burgundy	white		18980
apple green	white	18970	19012
forest green	white		19001
pine green	white		29491
sky blue	white		70953
blue	white	18952	18990
air force blue	white		29492
navy blue	white		29494
royal blue	white		19015
brown	white		29495
chocolate brown	white		29493
light grey	black		29496
taupe	white		29501
black	white	18943	18981
black	gold	18976	
glossy black	gold	18973	

- The most durable plastic material for exterior applications.
- Ideal for industrial applications: identification, electrical, signage, safety.
- Custom colours available on demand to match your graphic charter, logo...

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

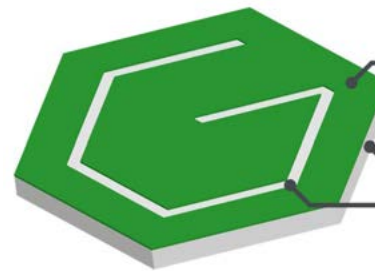


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES

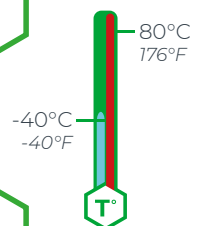
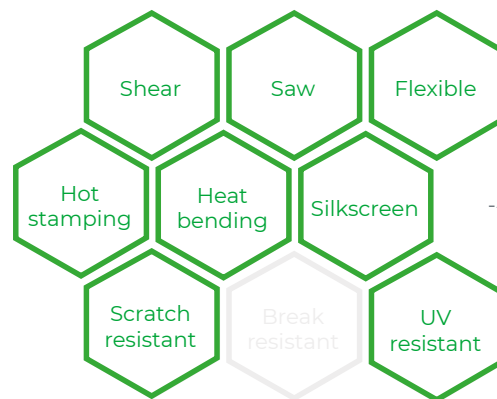


Surface finish:  
matte, glossy

DR Acrylic

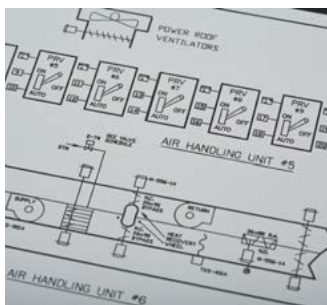
Engraving depth  
0.1 mm (.004")

## MATERIAL CAPABILITIES



Note:  
Black / gold Ref. 18973 has a glossy finish.

## APPLICATIONS



Industrial synoptic



Information label



Outdoor signage



Small plate

Sheet sizes may vary slightly. Printed colours for indication only. Cannot serve as a substitute for real material sample.





# GRAVOPLY™ 2

The affordable material for small plates and labels

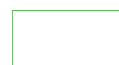
Surface colour	Core colour	Thickness			
		0.8 mm (1/32")	1.5 mm (1/16")	1.5 mm (1/16") *	2.4 mm (3/32")
white	red		21928		
white	azure blue		21908		
white	black	21850	21919	22010	21982
yellow	red		21913		
yellow	black	21863	21936		21995
orange	white		52205		
red	white	21851	21921		21983
red	yellow		21910		
burgundy	white		21932		
purple	white		67007		
apple green	white	21838	21905		
pine green	white	21865	21938		21997
pine green	yellow		21916		
sky blue	white		21934		
sky blue	black		21895		
blue	white	21852	21923		21984
air force blue	white		21907		
brown	white		21930		
grey	white	21856	21927		
grey	black		21915		
black	white	21849	21917	22009	21981
black	yellow		21940		

• Best value for money: good quality with a reduced budget.

• Microthin surface layer. Perfect for small characters and detailed logos.

• Wide choice of colours, ideal for your badges, ID plates & indoor signage engraving.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

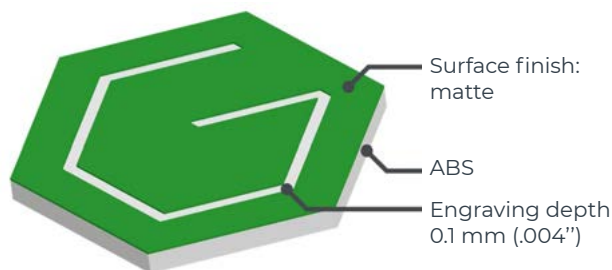


610 x 610 mm  
24 x 24"

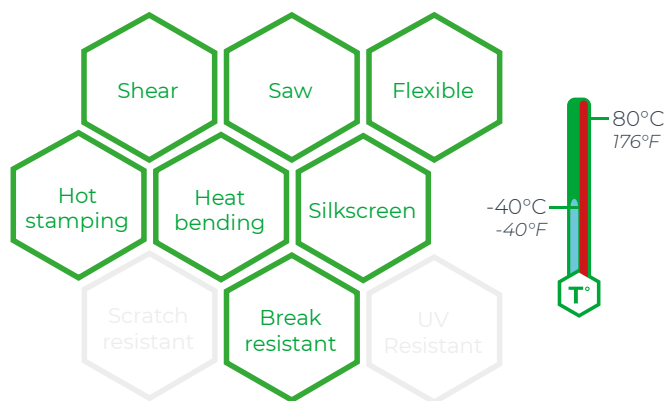


610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



\* References in green are double-sided

Note:

The surface layer of Gravoply™ 2 can be lasered but the engraving quality may vary depending on the colour.

You can mix any surface and core colours on demand. Double-sided also available.

## APPLICATIONS



Braille signage



Indoor signage



Small labels and plates



Badges

# GRAVOGLAS™ 1

The outdoor acrylic material for upscale architectural signage



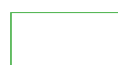
Watch our videos!

Surface colour	Core colour	Thickness		
		1.5 mm (1/16")	3.0 mm (1/8")	5.0 mm (0.20")
white	clear	18141	18193	18264
red	clear		18201	18267
blue	clear		18207	18270
silver	clear	18171	18244	18293
gold	clear	18168	18235	18290
old gold	clear	18174	18252	18296
black	clear	18138	18183	18261

Note:  
Gravoglas™ 1 is also used for the identification of pipes in the industrial sector.

- Laser engraving and cutting.  
Subsurface engraving: produce multi-colour signage with paint fill.
- Particularly popular for the brilliance of its black, gold and silver colours.
- Excellent UV resistance. Easy to keep the surface clean. Resistant to chemical agents.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

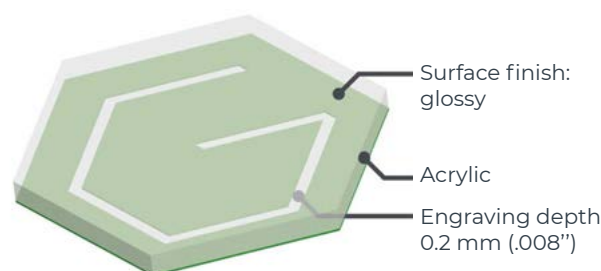


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



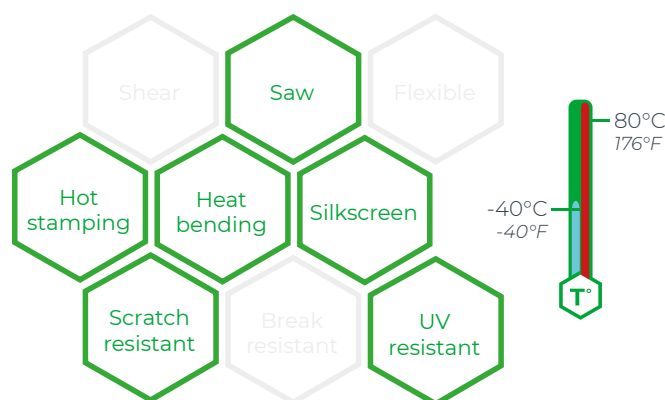
## COMPLEMENTARY PRODUCTS

See page 82



Spacers

## MATERIAL CAPABILITIES



## APPLICATIONS



Visual communication



Stencil



Professional plates



Measure tools



# ACRYLIC - CLEAR

Let your creativity flow!

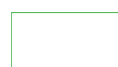


Watch our videos!

Core colour	Thickness		
	3.0 mm (1/8")	6.0 mm (0.20")	10.0 mm (0.40")
clear	83423	83424	83425
translucent green	83426		
translucent blue	83427		

- Cast acrylic. A resistant material, both for indoor and outdoor use. Rotary and laser engraving and cutting. Perfect for UV printing.
- Glossy finish. White engraving. Clear Acrylic can also be used as a substrate.
- A real alternative to glass, lighter and more resistant. Perfect light transmission, easily associated with light/LED.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

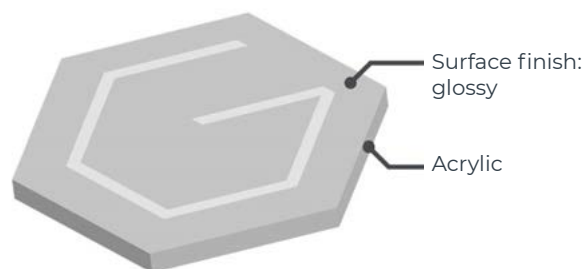


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



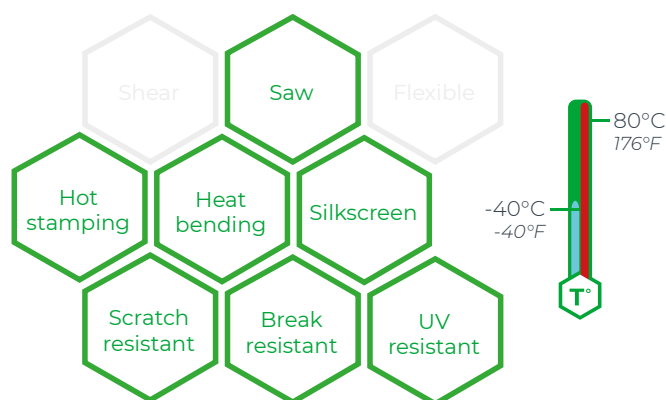
## COMPLEMENTARY PRODUCTS

See page 82



Spacers

## MATERIAL CAPABILITIES



## APPLICATIONS



Gift and decoration



Promotional items



Light and illumination



Trophy and awards



# ACRYLIC - FLUORESCENT

Let your creativity flow!

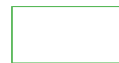


Watch our videos!

Core colour	Thickness
	3.0 mm (1/8")
fluorescent yellow	83428
fluorescent orange	83430
fluorescent pink	83429

- Discover the cast version of acrylic for a modern yet resistant finish.
- One-ply translucent material. Vivid and bright colours. Glossy finish.
- Can also be used as a substrate. For even more creative possibilities, combine it with the other Acrylic materials.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

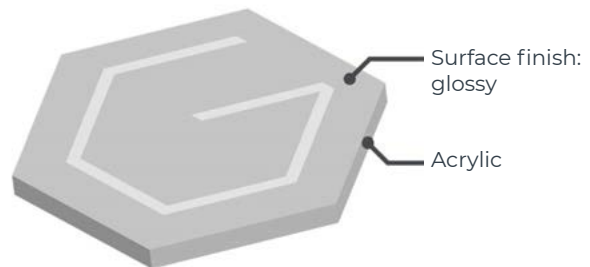


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 82

See page 80

See page 81



Spacers

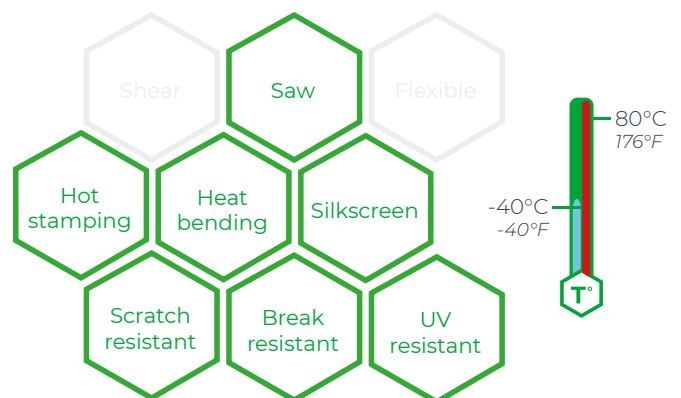


Ball chains



Nickel-plated steel ring

## MATERIAL CAPABILITIES



## APPLICATIONS



Decoration



Promotional items



Gifts



Display

Sheet sizes may vary slightly. Printed colours for indication only. Cannot serve as a substitute for real material sample.



# ACRYLIC - FROSTED

Let your creativity flow!

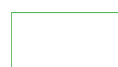


Watch our videos!

Core colour	Thickness
	3.0 mm (1/8")
frosted white	83431
frosted light blue	83434
frosted sky blue	83438
frosted blue ocean	83435
frosted blue lagoon	83437
frosted green	83436
frosted yellow	83432
frosted pink	83439
frosted mauve	83433

- Double-sided material: one side matte, one side glossy. Matte side relatively insensitive to fingerprints and scratches.
- Laser CO2 and mechanical engraving and cutting on both the front and the back. Can also be used as a substrate.
- Perfect for all your design and creative realisations.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

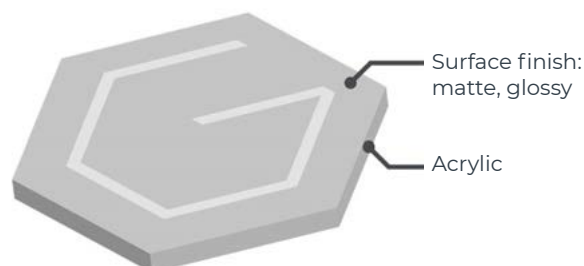


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 82

See page 82

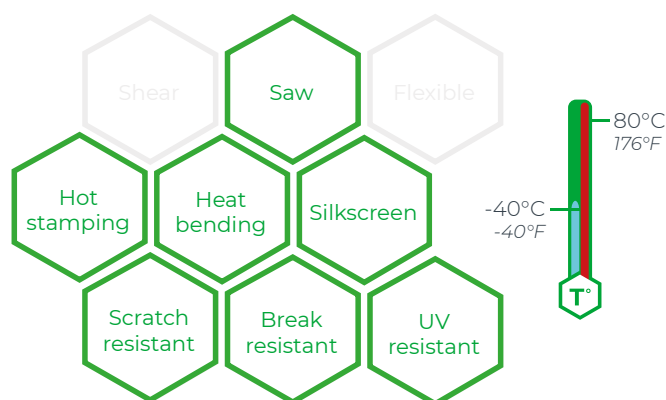


Spacers

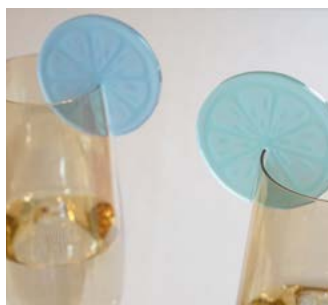


Screws

## MATERIAL CAPABILITIES



## APPLICATIONS



Decoration



Gifts and promotional items



Decoration



Creative signage





# ACRYLIC - OPAQUE

Let your creativity flow!



Watch our videos!

Core colour	Thickness	
	3.0 mm (1/8")	6.0 mm (0.20")
opaque white	83440	83441
opaque black	83442	83443

Note:  
For even more colours and possibilities, combine Acrylic with Gravotac™ Exterior.

- Double-sided material: one side matte, one side glossy.
- Laser CO2 and mechanical engraving and cutting on both the front and the back. Can also be used as a substrate.
- Fine white contrast with CO2 laser on opaque black. Opaque white perfect for UV printing.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

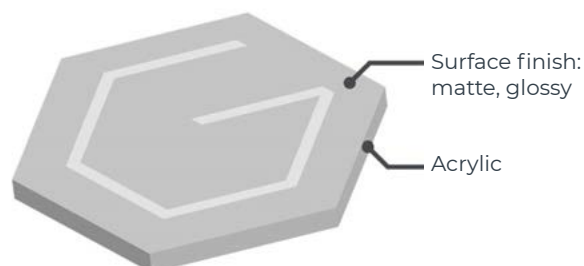


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



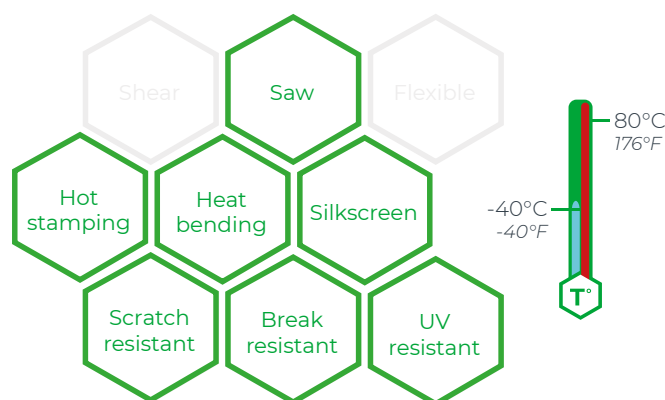
## COMPLEMENTARY PRODUCTS

See page 78



Double-sided  
19 mm

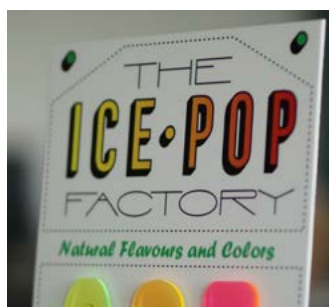
## MATERIAL CAPABILITIES



## APPLICATIONS



Decoration



Visual communication



Letter cut out



Indoor and outdoor signage



# ECOCUT LASER

A very affordable material for laser cutting work

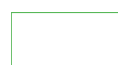
Core colour	Thickness			
	0.5 mm (0.020")	0.8 mm (1/32")	1.3 mm (0.050")	1.6 mm (1/16")
white	85985	85986	85987	85988
black	85989	86476	86477	86478

Note:

The surface of the Ecocut Laser is rough. It may include scratches and imperfections. Use only for cutting applications where the surface state does not matter.

- Very affordable substrate that can be UV-printed.
- Make stencils for letters, numbers, logos and more.
- 4 thicknesses for any cutting work.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

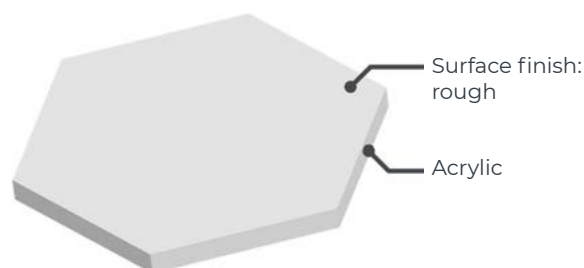


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 76

See page 78

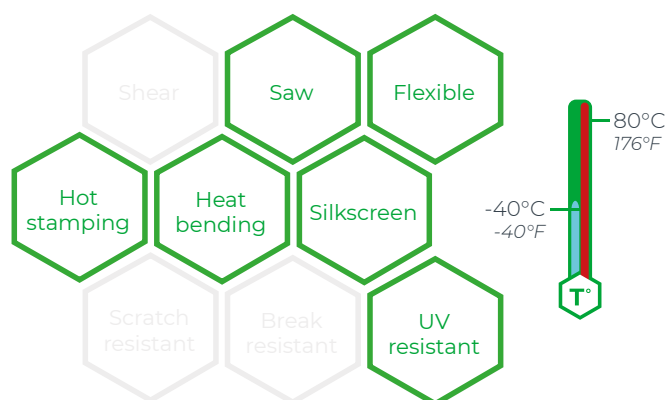


Gravoclean

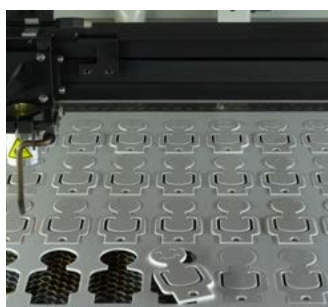


Adhesive mounting tape

## MATERIAL CAPABILITIES



## APPLICATIONS



Cutting shapes



Cutting-out template



Industrial stencil



Paint filling

# RUBBALASE™

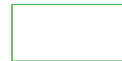
The laserable material made of natural rubber

Core colour	Thickness
	2.2 mm (0.087")
<b>natural rubbalase</b>	19897
<b>odourless rubbalase</b>	48542

*Note:*  
The hardness of elastomers is measured on the scale «Shore A»;  
Rubbalase is measured at 60 «Shore A».

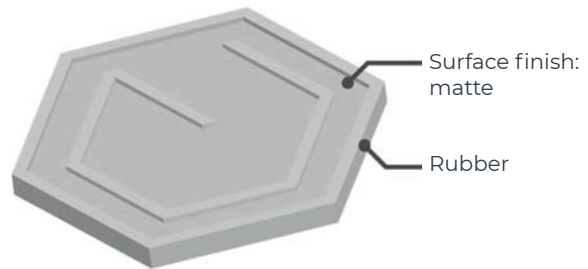
- Exclusively for lasering with CO2 laser engraving machines to create inking stamps.
- Its thickness of 2.2 mm (0.087") and its hardness (60 Shore) ensure a high definition result.
- Texts, numbers, logos, detailed pictures... from the most conventional to the most creative stamp.

## AVAILABLE SHEET SIZES



297 x 210 mm  
11.7 x 8.3"

## MATERIAL SPECIFICITIES



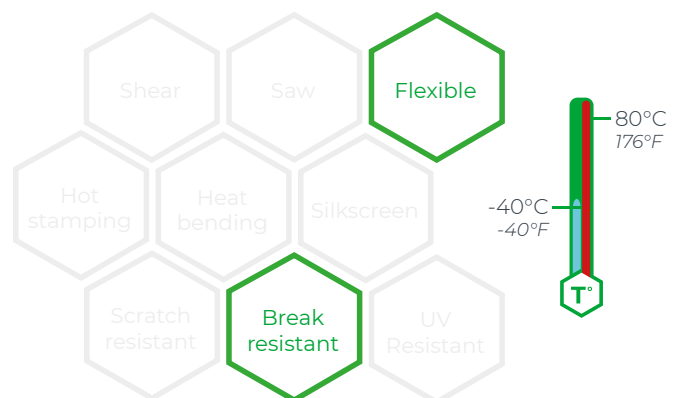
## COMPLEMENTARY PRODUCTS

See page 79



Gravogrip™

## MATERIAL CAPABILITIES



## APPLICATIONS



Any professional stamps



Administration and shops



Any legal dept. needs



Stationnary and DIY

# FLEXILASE™

The flexible material for high-definition engraving

Surface colour	Core colour	Thickness
		0.25 mm (0.010")
white	<b>black</b>	66984
yellow	<b>black</b>	66985
orange	<b>black</b>	66986
red	<b>white</b>	66997
purple	<b>white</b>	67002
apple green	<b>white</b>	67001
pine green	<b>white</b>	71673
sky blue	<b>white</b>	67000
blue	<b>white</b>	71670
air force blue	<b>white</b>	71671
brown	<b>white</b>	67004
brushed aluminum	<b>black</b>	66991
glossy silver	<b>black</b>	66990
matt aluminum	<b>black</b>	67558
european gold	<b>black</b>	66989
glossy gold	<b>black</b>	66988
grey	<b>white</b>	67003
black	<b>white</b>	66995

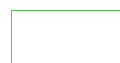
Note:

Purple, pine green and grey surfaces are subject to premature colourfading.

You can mix any surface and core colours on demand.

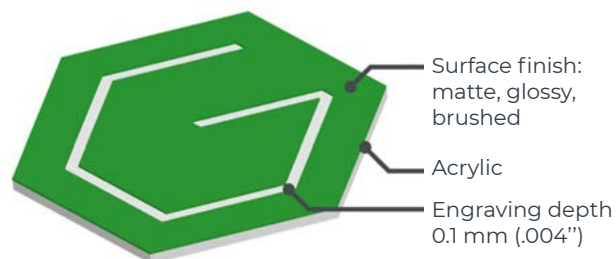
- Very thin and flexible, excellent for indoor and outdoor labels on flat or curved surfaces.
- Surface layer of just a few microns for fine laser CO2 engraving and cutting.
- Delivered with adhesive backing. Metallic colours for cups and trophies to be personalised.

## AVAILABLE SHEET SIZES

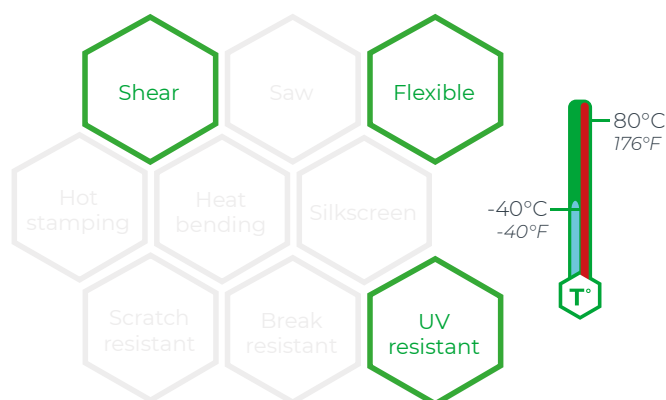


610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Industrial labels



Labels for personalization



Trophy plates



Labels for curved surfaces

# STICKALASE™

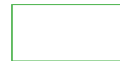
The ultimate ultra fine laserable material

Surface colour	Core colour	Thickness
		0.09 mm (0.004")
silver	black	19872
black	white	19871

Note:  
For a larger choice of colours, see Flexilase™.

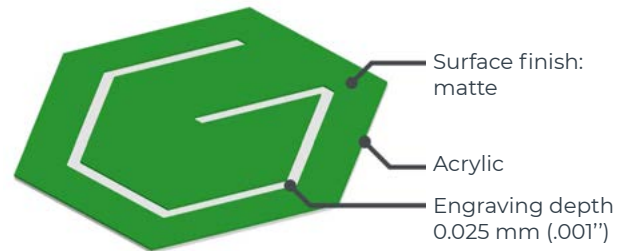
- Our thinnest material: surface layer of 0.09 mm (0.004") for fine engraving and clean cut when using a CO2 laser.
- Very good material for small labels on curved surface.
- Delivered in 10 metres (32') roll, with adhesive backing.

## AVAILABLE SHEET SIZES

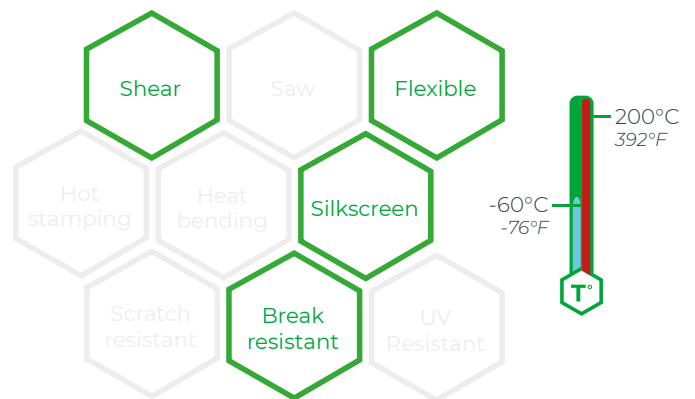


120 mm x 10 m  
4.75" x 32'

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Small labels to stick



Inventory labels



Barcode



# GRAVOLASE™ METALLICS

Laser material for a high-end metallic finish

Surface colour	Core colour	Thickness			
		0.5 mm (0.020")	0.8 mm (0.030")	1.3 mm (0.050")	1.6 mm (1/16")
radiant silver	black		51026	49986	
glossy silver	black	29548	51027	49980	
brushed silver	black	18961			19003
brushed aluminum	black		51025	49981	77657
matt aluminum	black		51024	51002	
brushed bronze	black	29544		51004	
copper	black	29546			29556
radiant gold	black		51028	49983	
brushed gold	black	18960		49985	19002
european gold	black	29542		49982	29552
glossy gold	black	29543		49984	

Note:

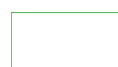
For a thinner laser metallic aspect material, see Flexilase™. Other thicknesses available on demand.

• The CO2 laser engraving and cutting plastic with a metallic aspect, cheaper than metal.

• 0.025 mm (0.001") surface layer for detailed engraving.

• Large range of metallic colours in a glossy, brushed or matte finish.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

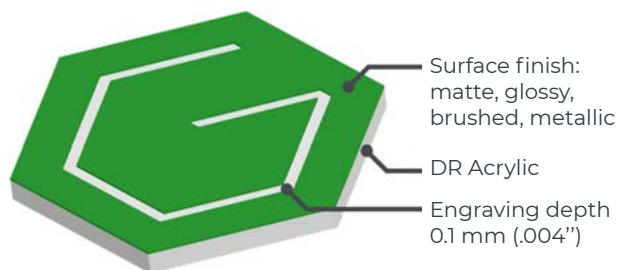


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 78



Double-sided  
50mm

See page 79



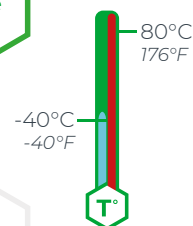
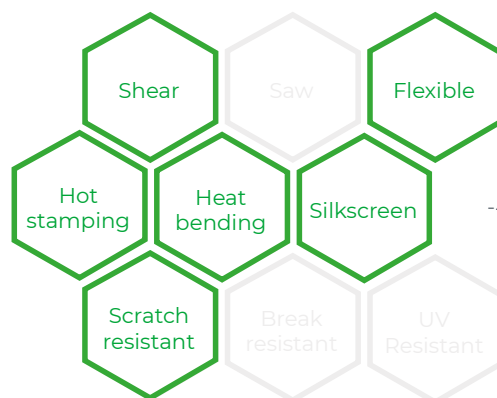
Gravofix

See page 87



Coloured  
badges plastic  
frames

## MATERIAL CAPABILITIES



## APPLICATIONS



Trophy plates



Award plates



Badges



Indoor signage

# COLORED ALUMINUM

The coloured aluminium for a striking contrast

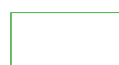
Surface colour	Core colour	Thickness
		0.6 mm (0.025")
red	silver	34528
blue	silver	34497
satin gold	silver	34595
glossy gold	silver	34596
satin silver	silver	34625
glossy silver	silver	34626
black	silver	34455

• Ideal metal for labels, small plates and indoor signage.

• Great for creativity: astonishing contrast after rotary or fibre laser engraving. Also sublimable.

• Thin aluminium: easy to cut and shear.

## AVAILABLE SHEET SIZES

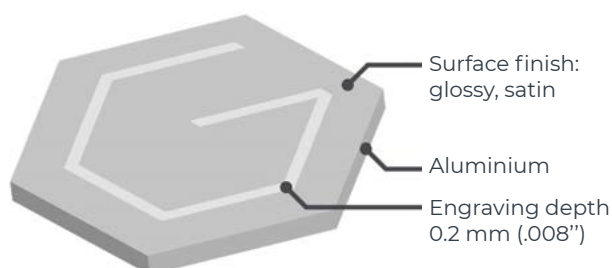


1220 x 305 mm  
48 x 12"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 78



Double-sided  
19 mm

## APPLICATIONS



Directional signage

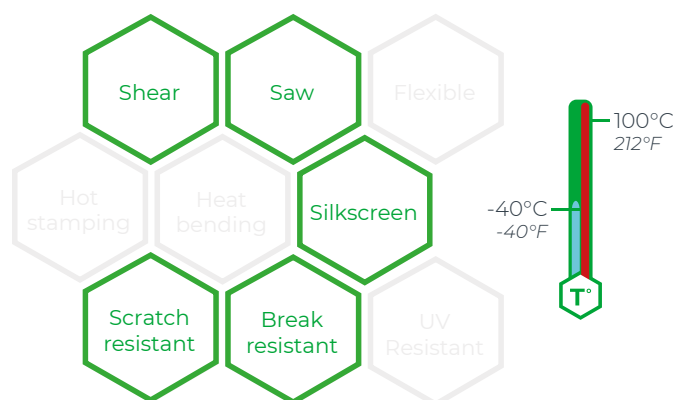


Name plate



Informative signage

## MATERIAL CAPABILITIES



# GRAVOXAL™ - MATTE

The multipurpose anodised aluminium range

Surface colour	Core colour	Thickness				
		0.5 mm (0.020")	1.0 mm (0.040")	1.5 mm (1/16")	2.0 mm (1/12")	3.0 mm (1/8")
champagne	aluminum		18581			
red	aluminum		18577	18591		
green	aluminum		18583	18597		
blue	aluminum		18579	18593		
silver	aluminum	18385	22055	18386	22057	22059
gold	aluminum	18571	18575	18589	18603	
bronze	aluminum		18585	18599		
black	aluminum	18569	18573	18587	18601	18614

Note:  
Protective film on one side.

Due to the process, there can be stains in the corners of aluminium sheets.

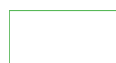
Laser engraving on all colours except silver. The engraving contrast may vary according to the colour.

Size 2000 x 1000 mm (78 x 39") on request.

Gravoxal™ Matte silver also available in 4 mm (1/6"): Ref. 18388.

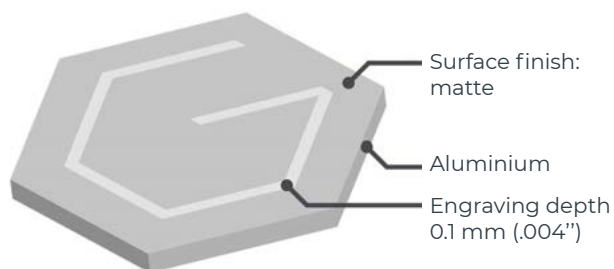
- Strong anodisation for a durable protection of the material.
- Ideal for the manufacture of front panels, the engraving of nameplates and industrial signage.
- High-definition laser engraving to be carried out even at greyscales.

## AVAILABLE SHEET SIZES

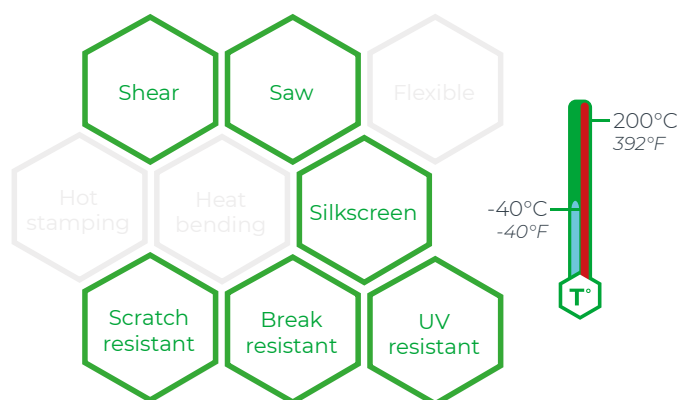


1000 x 500 mm  
39 x 19"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Large signage



Control panels



Pictures



Small plates





# GRAVOXAL™ - GLOSSY

The multipurpose anodised aluminium range

Surface colour	Core colour	Thickness		
		1.0 mm (0.040")	1.5 mm (1/16")	2.0 mm (1/12")
champagne	aluminum	18640		
red	aluminum	18636	18658	
green	aluminum	18642	18664	
blue	aluminum	18638	18660	
silver	aluminum	18618	18646	18668
steel look	aluminum	30381	30382	30383
gold	aluminum	18630	18654	18674
black	aluminum	18624	18650	18671

Note:  
Protective film on one side.

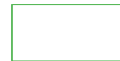
Due to the process, there can be stains in the corners of aluminium sheets.

Laser engraving on all colours except silver. The engraving contrast may vary according to the colour.

Size 2000 x 1000 mm (78 x 39") on request.

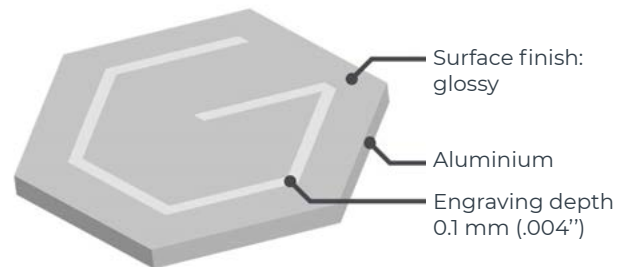
- Strong anodisation for a durable protection of the material.
- Ideal for the manufacture of front faces, the engraving of nameplates and industrial signage.
- High-definition laser engraving to be carried out even at greyscales.

## AVAILABLE SHEET SIZES

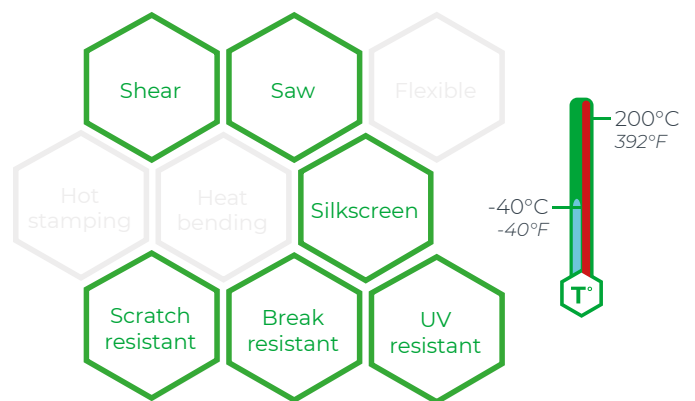


1000 x 500 mm  
39 x 19"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Control panel



Indoor signage



Aluminum tags



Exterior signage



# ALUMAMARK®

## Black marking on aluminum with CO2 engraving

Surface colour	Core colour	Thickness		
		*0.5 mm (0.020")	*0.127 mm (0.005")	0.5 mm (0.020")
<b>satin silver</b>	<b>black</b>	27419	27414	27417
<b>satin gold</b>	<b>black</b>	27416		27415
<b>satin brass</b>	<b>black</b>	45878		45879

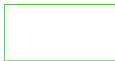
*Note:*  
Power sensitive material.  
If the image is too dark, reduce the power. If the image is too light, increase the power.  
Engraving quality is improved using 50% speed.  
Laser power: 6 - 10 watts.

Full sheets size depending on colours and thicknesses.  
Different sizes for:  
- Ref. 27414: 305 x 254 mm (12 x 10")  
- Ref. 45878: 510 x 305 mm (20 x 12")  
- Ref. 45879: 610 x 510 mm (24 x 20")

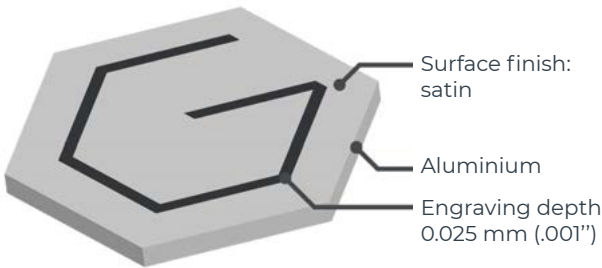
\* Delivered with adhesive backing.

- Natural black marking thanks to a thermal reaction with the heat of any CO2 laser.
- No oxidation, chemical product or paint fill needed to get the contrast.
- Fine details and shades of grey, ideal for photos.

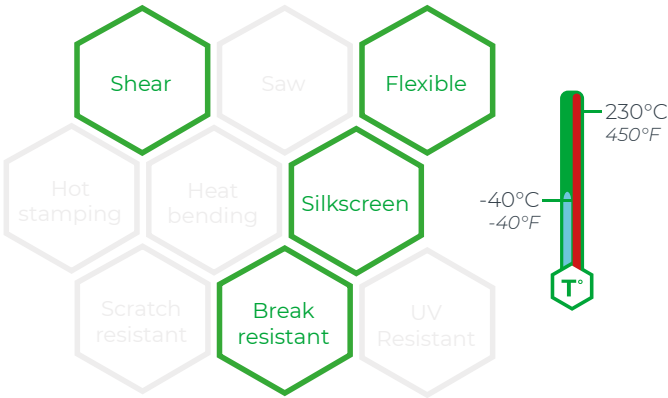
### AVAILABLE SHEET SIZES

  
610 x 508 mm  
24 x 20"

### MATERIAL SPECIFICITIES



### MATERIAL CAPABILITIES



### APPLICATIONS



Sheet sizes may vary slightly. Printed colours for indication only. Cannot serve as a substitute for real material sample.



# DURABLACK®

## Anodised aluminium for harsh environments

Surface colour	Core colour	Thickness
black	silver	*0.5 mm (0.020")
		71922

### Note:

Meets several government, industrial and military standards including MIL-STD 130N, A-A-50271 (MIL-P-514D), MIL-STD-15024F, Type L, MIL-STD-810G for withstanding 96 hours of exposure to corrosive chemicals, ASTM B117 30 days exposure to salt fog.

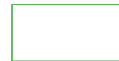
\* Delivered with adhesive backing.

• CO2 laser markable aluminium for durable marking for harsh operating environments.

• Ideal metal for durable, high-resolution barcode, pictures, placards, stock tags and signage.

• Resistant to UV, abrasion, high temperatures, salt spray and chemical exposure.

### AVAILABLE SHEET SIZES

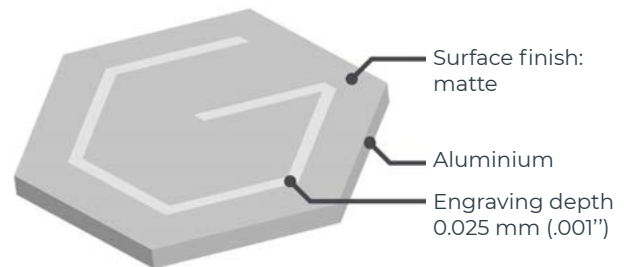


610 x 508 mm  
24 x 20"



508 x 305 mm  
20 x 12"

### MATERIAL SPECIFICITIES



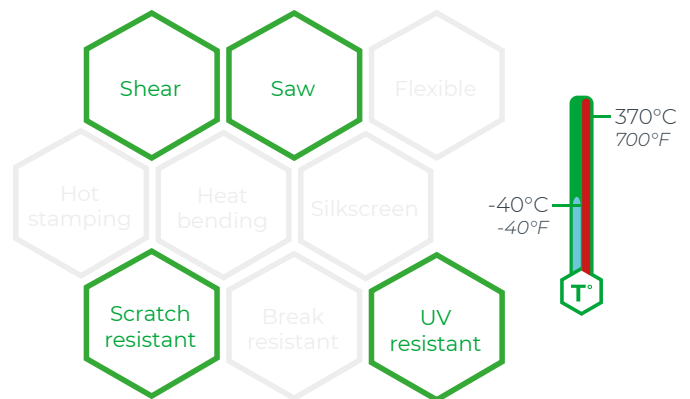
### COMPLEMENTARY PRODUCTS

See page 79

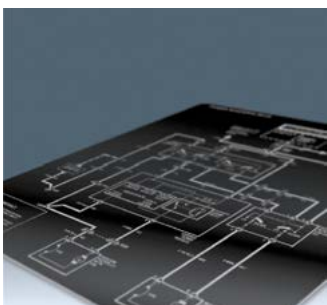


Gravogrip™

### MATERIAL CAPABILITIES



### APPLICATIONS



Industrial synoptic



Pictures reproductions



Outdoor signage



Asset tags

# GRAVOSTRAT™

An economical material for demanding applications

Surface colour	Core colour	Thickness	
		1.4 mm (0.055") *	2.5 mm (0.087") *
white	black	22042	22049
yellow	black	22044	22051
red	white	22043	22050
cool grey	black	22047	
black	white	22041	22048

\* References in green are double-sided

Note:

Gravostrat™ can be laser engraved but not laser cut.

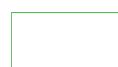
Gravostrat™ may be subject to slight variations in thickness.

• Double-sided rigid phenolic material with a glossy finish.

• Ideal choice for all industrial identification needs.

• Resistant to chemicals and solvents, non-flammable, conforms to military specifications ASTM D 709 ES-1, ES-2, ES-3, electrically non-conductive.

## AVAILABLE SHEET SIZES



1210 x 605 mm  
48 x 24"

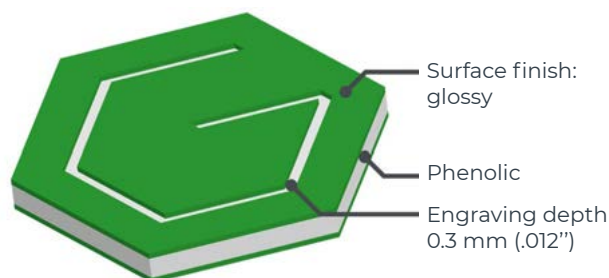


605 x 600 mm  
24 x 24"



600 x 300 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 80

See page 81

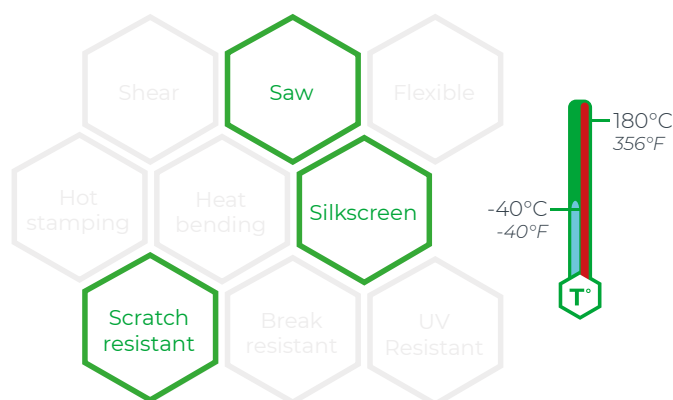


Ball chains



Nickel-plated  
steel ring

## MATERIAL CAPABILITIES



## APPLICATIONS



Indoor signage



Safety sign



Push button



Industrial identification



# GRAVOTAC™ EXTERIOR

The outdoor laserable braille material

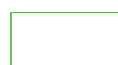


Watch our videos!

Core colour	Thickness		
	0.8 mm (1/32")	1.6 mm (1/16")	3.2 mm (1/8")
clear	29918	29935	
white	29919	29936	31237
red		29939	
pine green	29927		
blue		29945	
silver grey		29946	32187
black	29920	29937	31257

- The necessary product for braille and tactile signs cut with your laser machine.
- Profile available without or with adhesive backing.
- Matte finish. Compliant with the Americans with Disabilities Act (ADA) and Disability Discrimination Act (DDA) legislations which states that all information must be accessible to people with disabilities.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"



610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

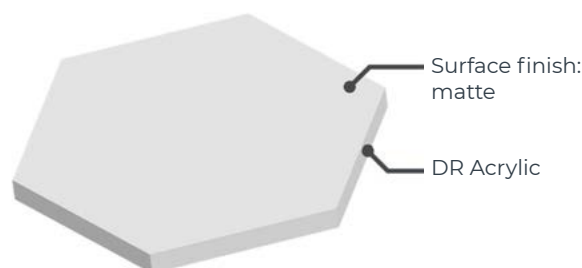
## THE GRAVOTAC™ PROCESS



- 1° Adhere 0.8 mm (1/32") profile material to 1.6 mm (1/16") or 3.2 mm (1/8") substrate.
- 2° Engrave using outline font.
- 3° Peel excess profile material off substrate.

For better visibility, choose contrasted colours.

## MATERIAL SPECIFICITIES



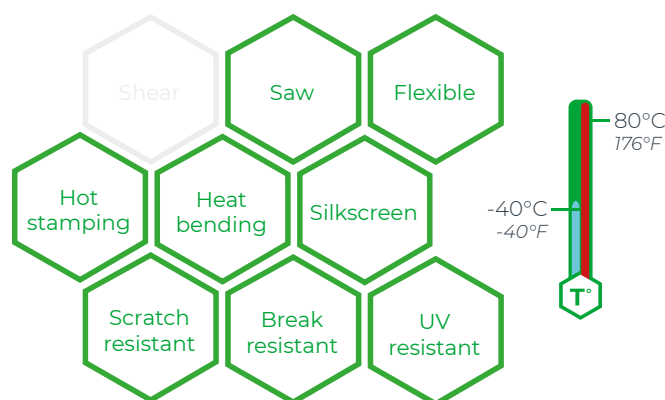
## COMPLEMENTARY PRODUCTS

See page 76



Gravoclean

## MATERIAL CAPABILITIES



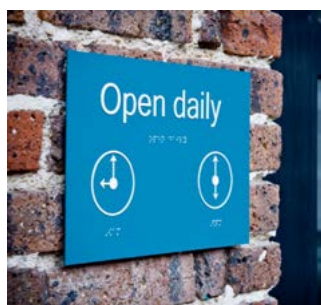
## APPLICATIONS



Icons and pictograms



Braille and tactile signage



Outdoor signage



Tactile signage



# LASER WOOD

Think Green. Go Green.



Watch our videos!

Core colour	Thickness			
	0.4 mm (1/64") *	1.0 mm (3/64") *	2.5 mm (3/32") *	4.5 mm (11/64") *
birch	82741	82742	82743	82744
beech			82747	82748
oak			82745	82746
walnut			82749	82750

\* References in green are double-sided

Note:

Packaged by 5.

Wood is a natural organic material. Thickness, colour and aspect can vary from one sheet to another. Let the material acclimatise to the end-use conditions before using it. Apply the masking paper on the sheet to avoid dust and fumes during CO2 laser cutting. Maintain the sheet flat on the honeycomb table using clamps.

## STARTER KIT - REF. 83925



Starter kit contains : Refs. 82741, 84742, 82747, 82749, 82746

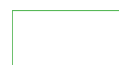
• Safe composition, respect of both nature and people.

• From thin and flexible 0.4 mm (1/64") to thick and rigid wood 4.5 mm (11/64").

• 0.4 mm (1/64") as thin as paper, for flexible applications.

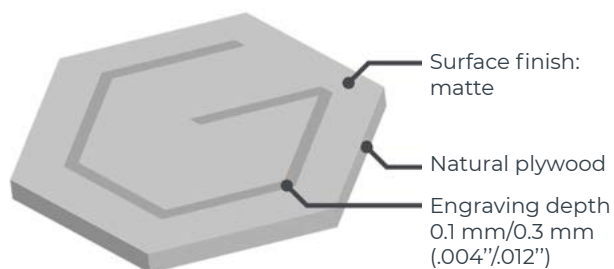
• Mix with other materials like Acrylic and aluminum for modern and trendy creations!

## AVAILABLE SHEET SIZES



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 79

See page 79

See page 78



Masking paper

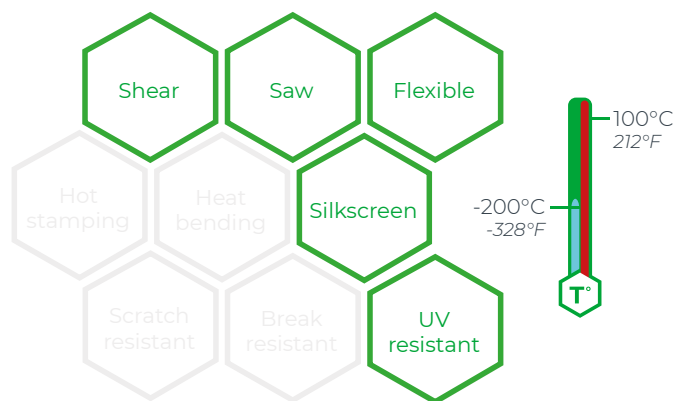


Clamps



Transfer

## MATERIAL CAPABILITIES



## APPLICATIONS



Decoration and gifts



Architectural models



Interior signage



Personalized cards and DIY



# ROTARY MATERIALS



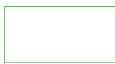


# GRAVOPLY™ 1

Our universal & historical material

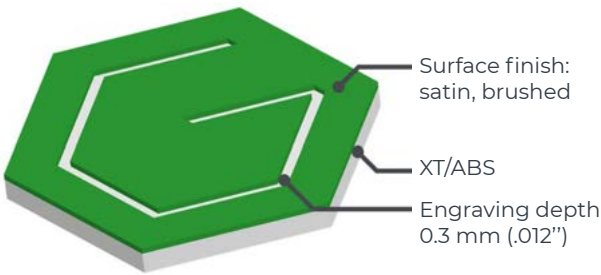
Surface colour	Core colour	Thickness				
		0.8 mm (1/32")	1.6 mm (1/16")	1.6 mm (1/16") *	2.4 mm (3/32")	3.2 mm (1/8") *
white	green		17313			
white	black	17263	17331	29578	22030	29700
almond	black		32293			
yellow	white		29564			
yellow	black	17273	17366	29579	17478	17525
orange	white		17407			
orange	black		17404			
red	white	17267	17506	29580	17472	29702
red	black		17454			
burgundy	white		17463			
dark purple	white		17436			
apple green	white		17442			
pine green	white		17410			
azure blue	white	17270	17353	29603	17475	29705
air force blue	white		17428			
navy blue	white		29581			
brown	white		17388			
silver grey	white		29584			
silver grey	black		17379			
black	white	17250	17319	29604	17467	17521

- The acrylic surface and its smooth satin finish makes GravoPLY™ 1 particularly scratch resistant.
- The right rotary product for every industrial or architectural identification indoor applications.
- Most popular colour combinations also available in double-sided version.

## AVAILABLE SHEET SIZES

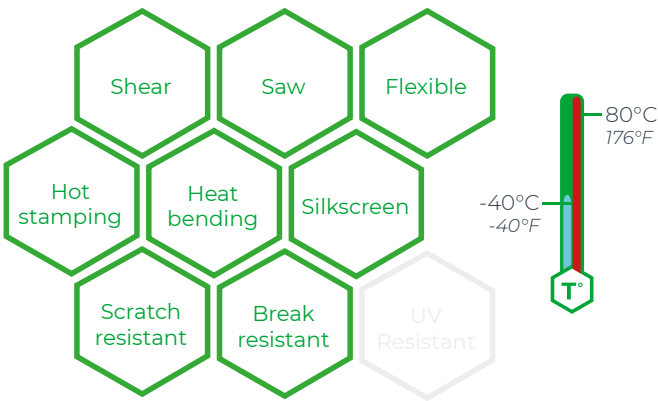
		
1220 x 610 mm 48 x 24"	610 x 610 mm 24 x 24"	610 x 305 mm 24 x 12"

## MATERIAL SPECIFICITIES



\* References in green are double-sided

## MATERIAL CAPABILITIES



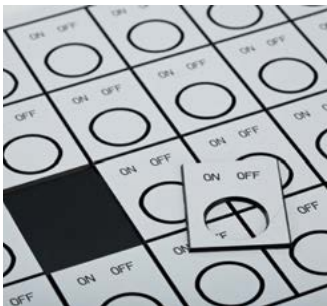
## APPLICATIONS



Indoor signage



Key tags



Push buttons



Industrial signage

Sheet sizes may vary slightly. Printed colours for indication only. Cannot serve as a substitute for real material sample.



# GRAVOPLY™ 2

The affordable material for small plates and labels

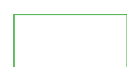
Surface colour	Core colour	Thickness			
		0.8 mm (1/32")	1.5 mm (1/16")	1.5 mm (1/16") *	2.4 mm (3/32")
white	red		21928		
white	azure blue		21908		
white	black	21850	21919	22010	21982
yellow	red		21913		
yellow	black	21863	21936		21995
orange	white		52205		
red	white	21851	21921		21983
red	yellow		21910		
burgundy	white		21932		
purple	white		67007		
apple green	white	21838	21905		
pine green	white	21865	21938		21997
pine green	yellow		21916		
sky blue	white		21934		
sky blue	black		21895		
blue	white	21852	21923		21984
air force blue	white		21907		
brown	white		21930		
grey	white	21856	21927		
grey	black		21915		
black	white	21849	21917	22009	21981
black	yellow		21940		

• Best value for money: good quality with a reduced budget.

• Microthin surface layer. Perfect for small characters and detailed logos.

• Wide choice of colours, ideal for your badges, ID plates & indoor signage engraving.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

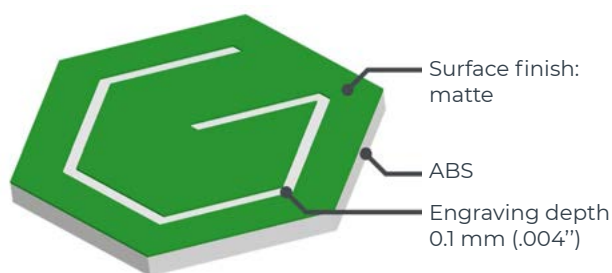


610 x 610 mm  
24 x 24"

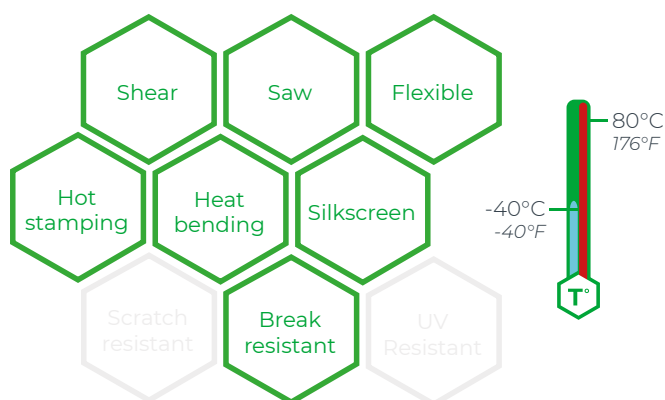


610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



\* References in green are double-sided

Note:  
The surface layer of Gravoply™ 2 can be lasered but the engraving quality may vary depending on the colour.

You can mix any surface and core colours on demand.  
Double-sided also available.

## APPLICATIONS



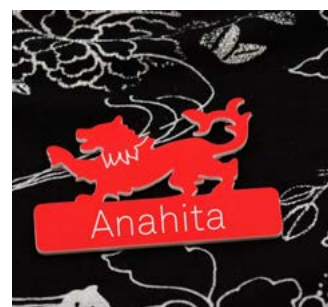
Braille signage



Indoor signage



Small labels and plates



Badges

# GRAVOGLAS™ 2-PLEX™ - MATTE SURFACE

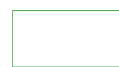
A strong acrylic material for outdoor use

Surface colour	Core colour	Thickness		
		1.6 mm (1/16")	3.2 mm (1/8")	3.2 mm (1/8") *
white	red	29627		
white	blue	29628		
white	black	17875	29904	29912
yellow	black	17881		
orange	black	29633		
orange	white	47230		
red	white	17877	29905	
apple green	white	17885	29906	
azure blue	white	17879	29907	
silver grey	black	17887	29908	
gold	black	29642	29910	
black	white	17873	29911	29913
black	gold	29643		

\* References in green are double-sided

- Matte aspect. Ideal for outdoor signage and directional signs.
- High resistance to UV and scratches thanks to its thick surface.
- Recommended for deeply engraved signage.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

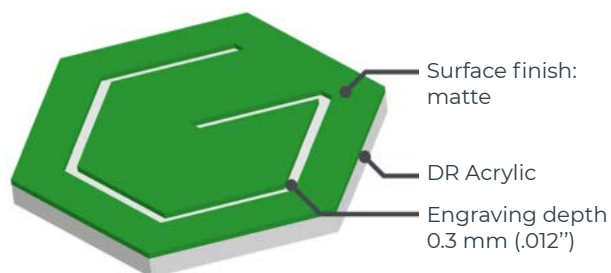


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 76



Gravoclean

See page 82



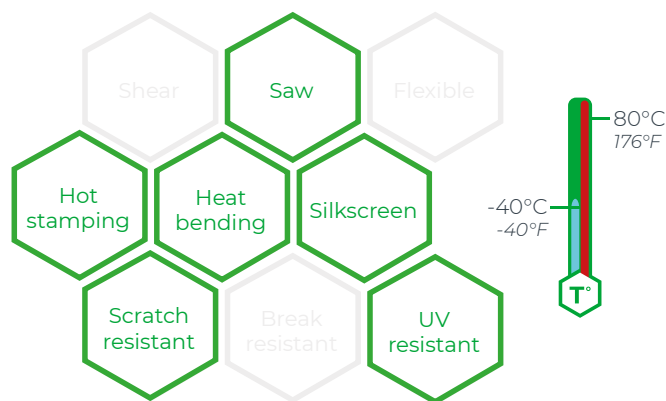
Spacers

See page 83



Aluminium plant label holder

## MATERIAL CAPABILITIES



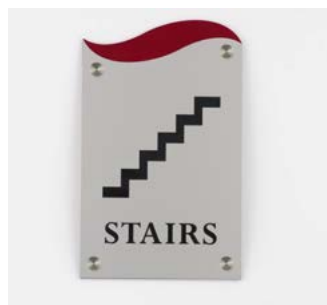
## APPLICATIONS



Legend plate



Industrial signage



Directional signage



Information plate

# GRAVOGLAS™ 2-PLEX™ - GLOSSY SURFACE

A strong acrylic material for outdoor use

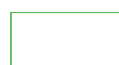
Surface colour	Core colour	Thickness	
		1.6 mm (1/16")	3.2 mm (1/8")
white	<b>red</b>	17907	18063
white	<b>black</b>	17892	18051
yellow	<b>black</b>	17901	18060
red	<b>white</b>	17895	18054
apple green	<b>white</b>	17910	18066
pine green	<b>white</b>	17918	
azure blue	<b>white</b>	17898	18057
silver grey	<b>black</b>	17930	18078
gold	<b>black</b>	17927	18075
black	<b>white</b>	17889	18048

• Glossy aspect. Ideal for outdoor signage and directional signs.

• High resistance to UV and scratches thanks to its thick surface.

• Recommended for deeply engraved signage.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

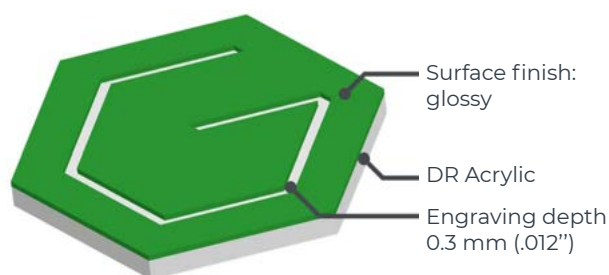


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 76



Gravoclean

See page 82



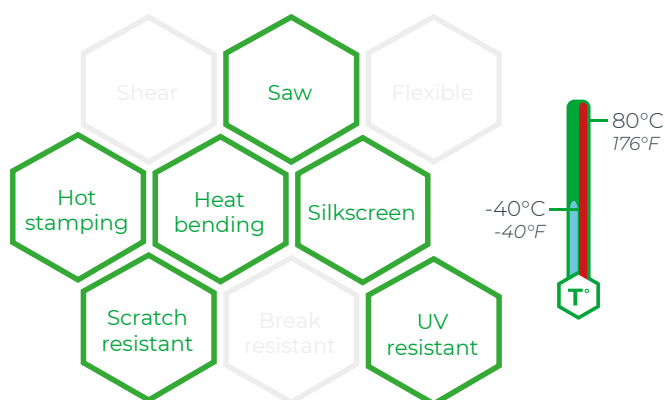
Wooden support

See page 82



Screws

## MATERIAL CAPABILITIES



## APPLICATIONS



Professional plate



Outdoor signage



Location identification



Information label



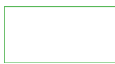


# GRAVOGLAS™ 2-PLEX™ - TEXTURED SURFACE

A strong acrylic material for outdoor use

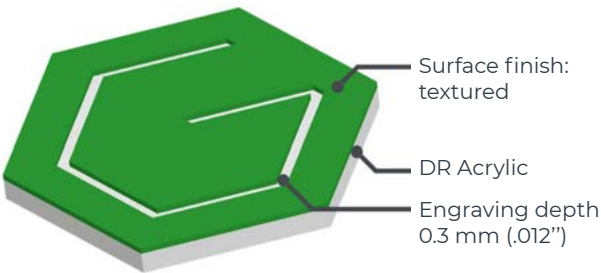
Surface colour	Core colour	Thickness
white	black	1.6 mm (1/16")
white	black	18304
yellow	black	18334
red	white	18307
pine green	white	18343
azure blue	white	18310
silver grey	black	18322
black	white	18301

- Textured aspect. Ideal for outdoor signage and industrial applications.
- High resistance to UV, scratches and fingerprints thanks to its thick and textured surface.
- Recommended for deeply engraved signage.

## AVAILABLE SHEET SIZES

		
1220 x 610 mm 48 x 24"	610 x 610 mm 24 x 24"	610 x 305 mm 24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 76

See page 80

See page 81



Industrial Degraising Spray

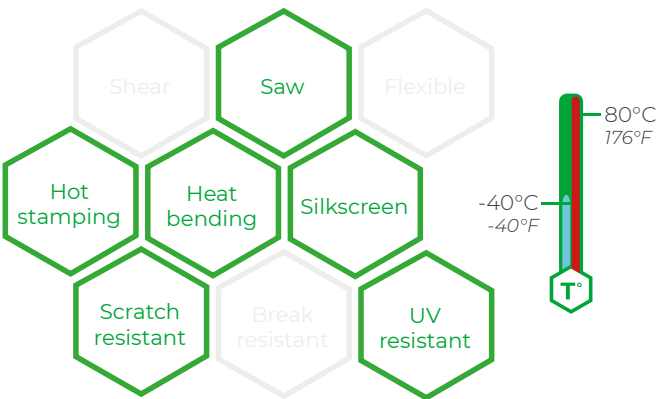


Ball chains



S-Hook rings

## MATERIAL CAPABILITIES



## APPLICATIONS



Industrial signage



Indoor and outdoor signage



Security sign



Electrical identification

Sheet sizes may vary slightly. Printed colours for indication only. Cannot serve as a substitute for real material sample.



# GRAVOPLY™ 3C

The only comprehensive range offering 3 levels of colour

Surface colour	Second surface colour	Core colour	Thickness
white	red	black	1.6 mm (1/16")
yellow	white	black	23957
yellow	red	black	23949
red	white	black	23954
apple green	white	black	23955
blue	white	black	23953
blue	red	white	23956
brushed aluminum	black	white	23952
radiant gold	black	white	23951
black	red	white	23950
			23948

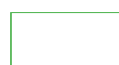
Note:  
Other colour combinations available on demand.

• Get a 3 colours sign without adding any colouring afterwards.

• Use just one tool to obtain 3 different colours simply by changing the engraving depth.

• Ideal for plates with logos, safety signs and badges.

## AVAILABLE SHEET SIZES



1220 x 600 mm  
48 x 24"

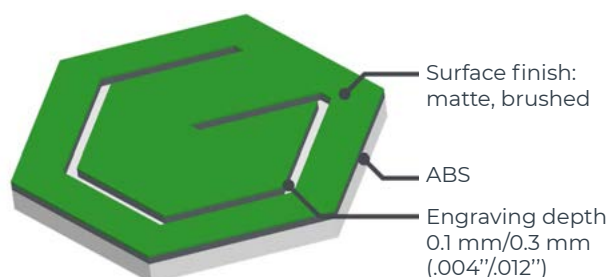


610 x 600 mm  
24 x 24"



600 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 76

See page 78

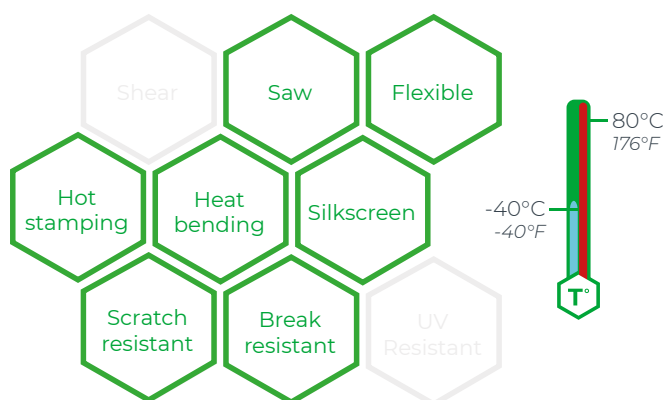


Gravoclean



Double-Sided Adhesives  
50mm

## MATERIAL CAPABILITIES



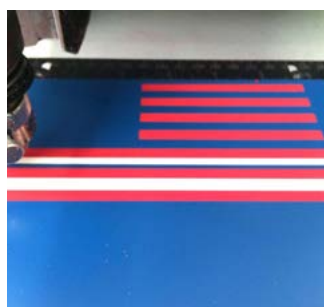
## APPLICATIONS



Signage



Safety sign



Logos and pictures



Pictograms

# ECOCUT

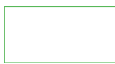
A very affordable material for rotary cutting work

Core colour	Thickness	
	0.8 mm (1/32")	1.5 mm (1/16")
white	85981	85982
black	85983	85984


*Note:*  
The surface of the Ecocut is rough. It may include scratches and imperfections. Use only for cutting applications where the surface state does not matter.  
For CO2 laser cutting, we suggest the use of Ecocut Laser.

- Specific low-priced plastic for cutting applications.
- Make stencils for letters, numbers, logos and more.
- Create positioning templates to hold parts or place cut-out letters.


## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

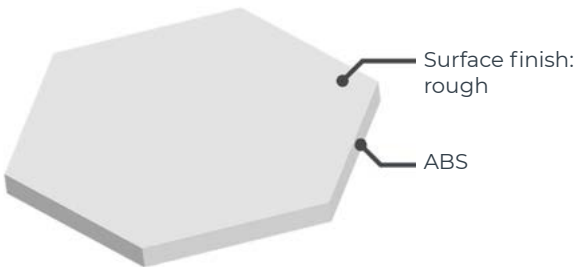


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 76      See page 78

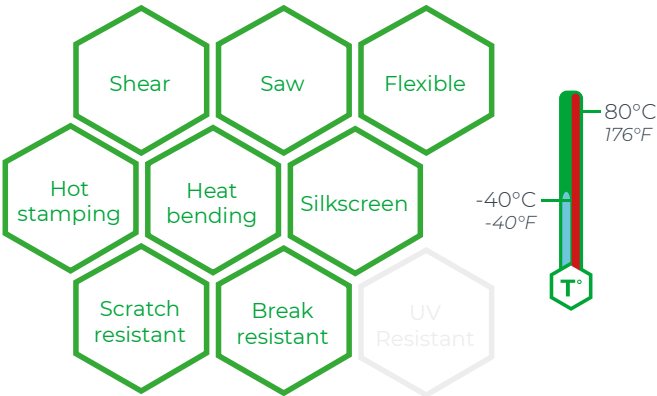


Gravoclean



Adhesive mounting tape

## MATERIAL CAPABILITIES



## APPLICATIONS



Cutting-out template



Paint filling



Stencil for safety



Cutting shapes

Sheet sizes may vary slightly. Printed colours for indication only. Cannot serve as a substitute for real material sample.

# GRAVOGLAS™ 2-PLEX™ SUBSURFACE

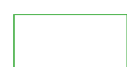
The reverse outdoor acrylic material

## MATTE

Surface colour	Core colour	Thickness	
		1.6 mm (1/16")	3.2 mm (1/8")
clear	<b>clear</b>	17941	18082
white	<b>clear</b>	17947	18086
yellow	<b>clear</b>	17956	
red	<b>clear</b>	17950	
azure blue	<b>clear</b>	17953	
silver grey	<b>clear</b>	17961	34406
black	<b>clear</b>	17944	18084

- Engrave the back, so the front always protects the engraving.
- After mechanical reverse engraving, can be paint filled.
- Resists to fingerprints, scratches and UV.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"



610 x 610 mm  
24 x 24"

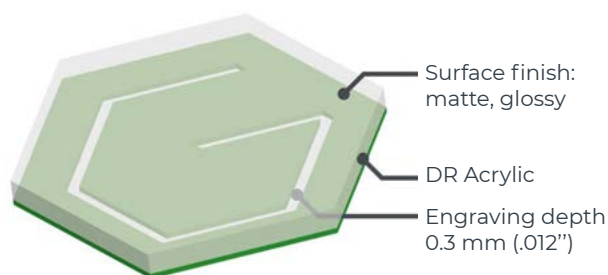


610 x 305 mm  
24 x 12"

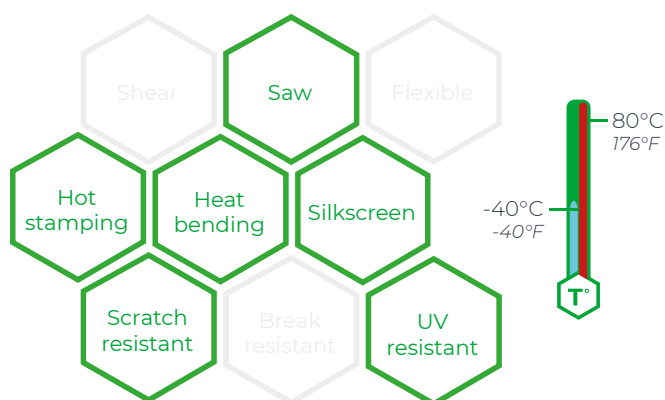
## GLOSSY

Surface colour	Core colour	Thickness		
		1.6 mm (1/16")	3.2 mm (1/8")	4.8 mm (0.20")
white	<b>clear</b>		18021	18101
yellow	<b>clear</b>	18003		
red	<b>clear</b>	17997		
silver grey	<b>clear</b>	29656		
gold	<b>clear</b>	17982	18091	
black	<b>clear</b>	17991	18024	18104

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## COMPLEMENTARY PRODUCTS

See page 73



Gravolaque

See page 82



Wooden support

See page 82



Screws

## APPLICATIONS



Outdoor signage



Small pieces



Letter cut out



Gift and decoration

# ACRYLIC - CLEAR

Let your creativity flow!



Watch our videos!

Core colour	Thickness		
	3.0 mm (1/8")	6.0 mm (0.20")	10.0 mm (0.40")
clear	83423	83424	83425
translucent green	83426		
translucent blue	83427		

- Cast acrylic. A resistant material, both for indoor and outdoor use. Rotary and laser engraving and cutting. Perfect for UV printing.
- Glossy finish. White engraving. Clear Acrylic can also be used as a substrate.
- A real alternative to glass, lighter and more resistant. Perfect light transmission, easily associated with light/LED.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

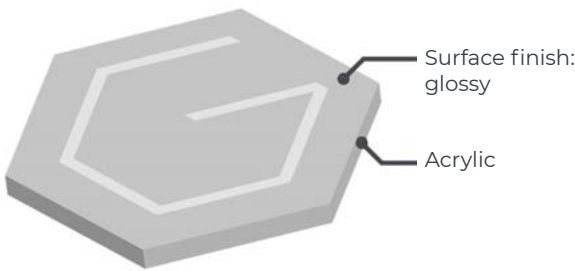


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 73



Gravolaque

See page 73



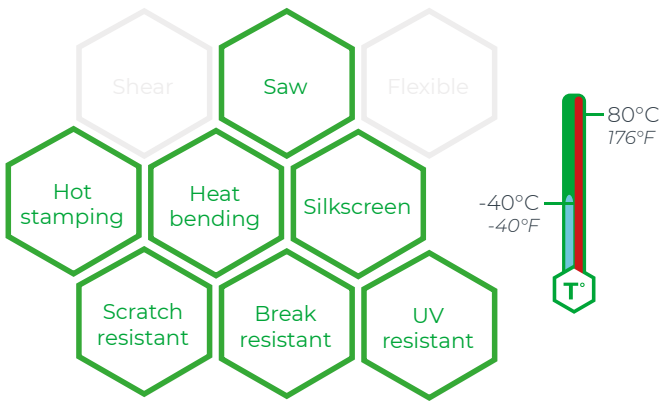
Application Kit

See page 82



Spacers

## MATERIAL CAPABILITIES



## APPLICATIONS



Gift and decoration



Promotional items



Light and illumination



Trophy and awards

Sheet sizes may vary slightly. Printed colours for indication only. Cannot serve as a substitute for real material sample.





# ACRYLIC - FLUORESCENT

Let your creativity flow!

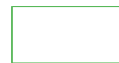


Watch our videos!

Core colour	Thickness
	3.0 mm (1/8")
fluorescent yellow	83428
fluorescent orange	83430
fluorescent pink	83429

- Discover the cast version of acrylic for a modern yet resistant finish.
- 1-ply translucent material. Vivid and bright colours. Glossy finish.
- Can also be used as a substrate. For even more creative possibilities, combine it with the other Acrylic materials.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

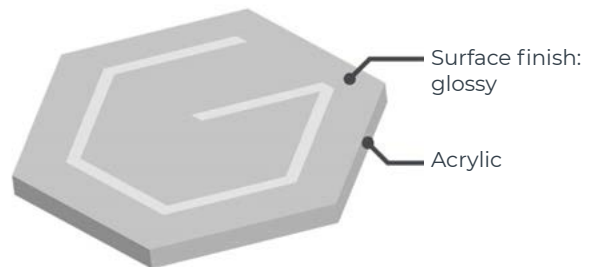


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 82

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Spacers

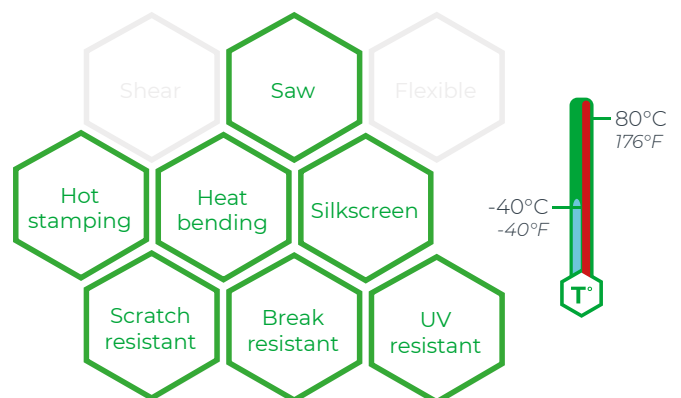


Ball chains

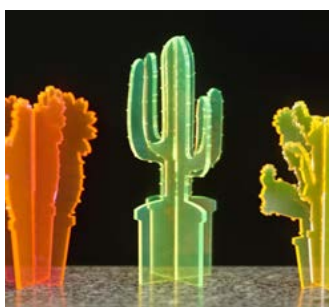


Nickel-plated steel ring

## MATERIAL CAPABILITIES



## APPLICATIONS



Decoration



Promotional items



Gifts



Display

Sheet sizes may vary slightly. Printed colours for indication only. Cannot serve as a substitute for real material sample.



# ACRYLIC - FROSTED

Let your creativity flow!

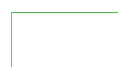


Watch our videos!

Core colour	Thickness
	3.0 mm (1/8")
frosted white	83431
frosted light blue	83434
frosted sky blue	83438
frosted blue ocean	83435
frosted blue lagoon	83437
frosted green	83436
frosted yellow	83432
frosted pink	83439
frosted mauve	83433

- Double-sided material: one side matte, one side glossy. Matte side relatively insensitive to fingerprints and scratches.
- Laser CO2 and mechanical engraving and cutting on both the front and the back. Can also be used as a substrate.
- Perfect for all your design and creative realizations.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

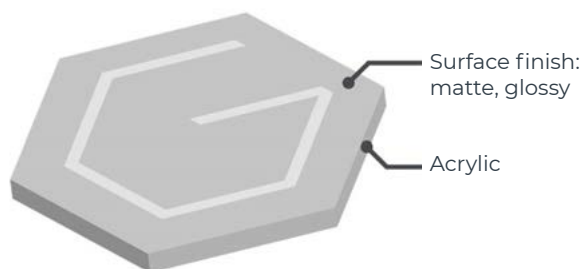


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 82

See page 82

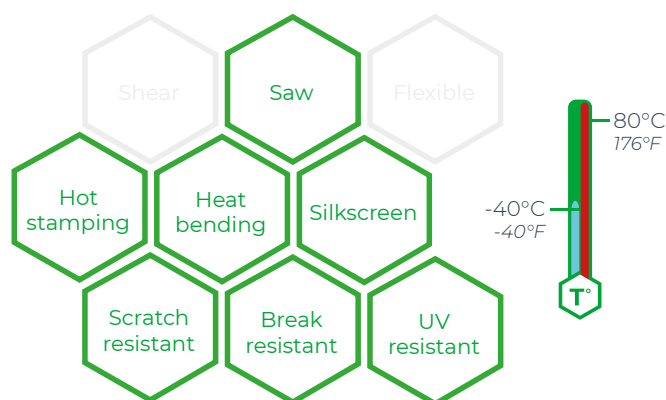


Spacers



Screws

## MATERIAL CAPABILITIES



## APPLICATIONS



Decoration



Gifts and promotional items



Decoration



Creative signage



# ACRYLIC - OPAQUE

Let your creativity flow!



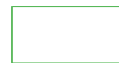
Watch our videos!

Core colour	Thickness	
	3.0 mm (1/8")	6.0 mm (0.20")
opaque white	83440	83441
opaque black	83442	83443

Note:  
For even more colours and possibilities, combine Acrylic with Gravotac™ Exterior.

- Double-sided material: one side matte, one side glossy.
- Laser CO2 and mechanical engraving and cutting on both the front and the back. Can also be used as a substrate.
- Fine white contrast with CO2 laser on opaque black. Opaque white perfect for UV printing.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

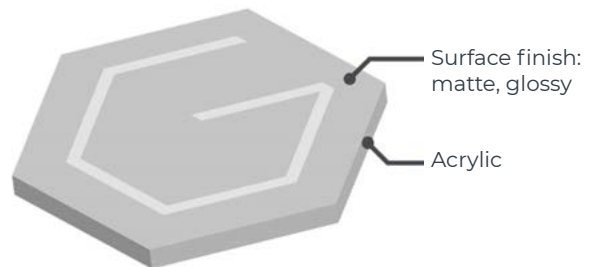


610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 73



Gravolaque

See page 73



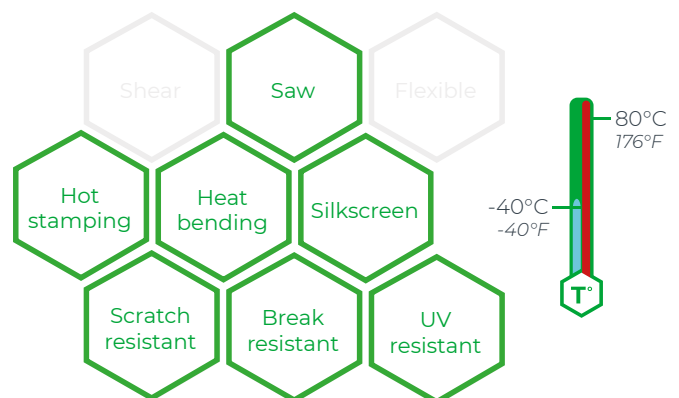
Application Kit

See page 78



Double-sided  
19 mm

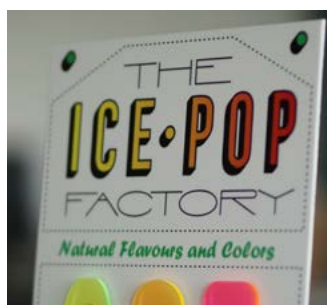
## MATERIAL CAPABILITIES



## APPLICATIONS



Decoration



Visual communication



Letter cut out



Indoor and outdoor signage



# FLEXILASE™

The flexible material for high-definition engraving

Surface colour	Core colour	Thickness
		0.25 mm (0.010")
white	<b>black</b>	66984
yellow	<b>black</b>	66985
orange	<b>black</b>	66986
red	<b>white</b>	66997
purple	<b>white</b>	67002
apple green	<b>white</b>	67001
pine green	<b>white</b>	71673
sky blue	<b>white</b>	67000
blue	<b>white</b>	71670
air force blue	<b>white</b>	71671
brown	<b>white</b>	67004
brushed aluminum	<b>black</b>	66991
glossy silver	<b>black</b>	66990
matt aluminum	<b>black</b>	67558
european gold	<b>black</b>	66989
glossy gold	<b>black</b>	66988
grey	<b>white</b>	67003
black	<b>white</b>	66995

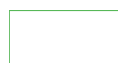
Note:

Purple, pine green and grey surfaces are subject to premature colourfading.

You can mix any surface and core colours on demand.

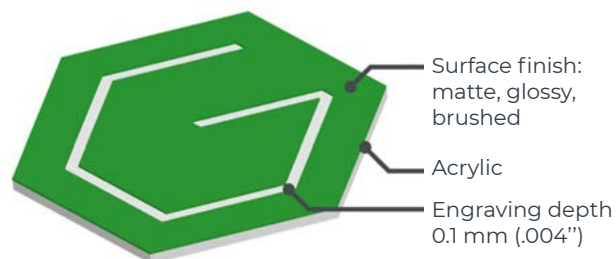
- Very thin and flexible, excellent for indoor and outdoor labels on flat or curved surfaces.
- Surface layer of just a few microns for fine laser CO2 engraving and cutting.
- Delivered with adhesive backing. Metallic colours for cups and trophies to be personalised.

## AVAILABLE SHEET SIZES

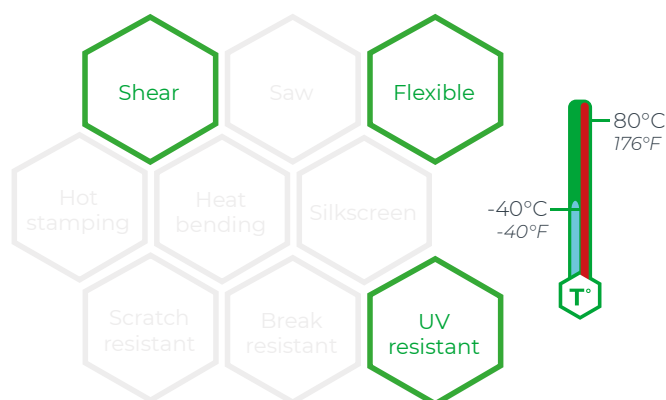


610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Industrial labels



Labels for personalization



Trophy plates



Labels for curved surfaces



# GRAVOFOIL™

The reference for thin material dedicated to industrial signage

Surface colour	Core colour	Thickness
		0.2 mm (0.008")
white	black	18448
yellow	black	18456
red	white	18450
green	white	18460
blue	white	18452
grey	white	18454
black	white	18446

Note:  
For CO2 laser engraving, we suggest the use of Flexilase™.

- Follows the pipe identification colours for the industrial market.
- Excellent resistance to acids and solvents.
- Very flexible. Comes with adhesive backing, can be easily placed on curved surfaces.

## AVAILABLE SHEET SIZES

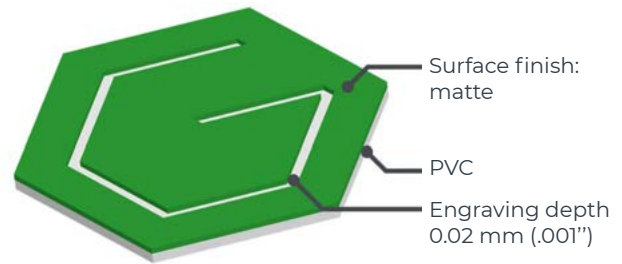


660 x 480 mm  
25 x 18"

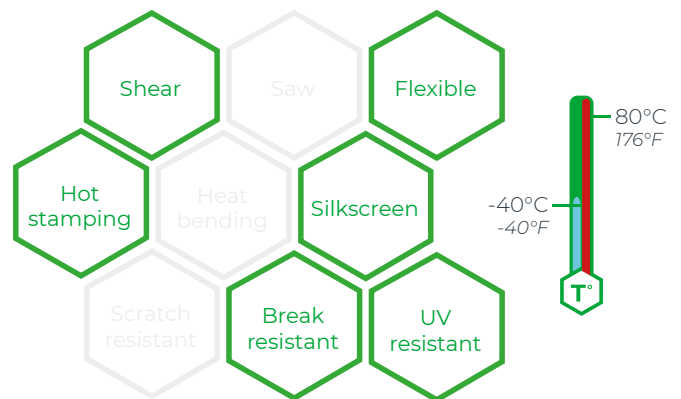


480 x 330 mm  
18 x 12.5"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Pipes and valves identification



Permanent labels



Pipes identification



Industrial labels



# METALLEX™

Metallic appearance for a high-end finish

Surface colour	Core colour	Thickness		
		0.8 mm (1/32")	1.5 mm (1/16")	2.4 mm (3/32")
radiant silver	black	21825	21889	21957
matt aluminum	black	21867	21941	21999
brushed aluminum	black	21830	21898	21965
glossy silver	black	21823	21887	21955
new gold	black	21846	21914	21978
radiant gold	black	21824	21888	21956
european gold	black	21836	21903	21969
glossy gold	black	21822	21886	
brushed bronze	black		21904	



*Note:*  
The surface layer of the Metallex™ can be lasered but the quality of the engraving may vary depending on the colours. Laser cutting is not recommended.

On demand pre-cut tags available, ideal for machines or to enhance productivity.

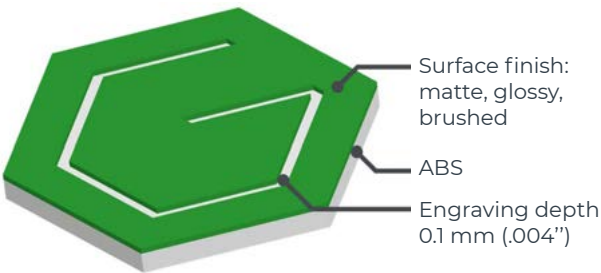
With its smooth and supergloss finish, the Hard Coat version of Metallex™ has a surface layer that is even more resistant to scratches and fingerprints.

- A metallic aspect material with the advantages of plastic: easily cut and cheaper than metal.
- Fast engraving thanks to the very thin surface layer.
- Ideal for badges, trophy plates and awards and indoor applications.

## AVAILABLE SHEET SIZES

		
1220 x 610 mm 48 x 24"	610 x 610 mm 24 x 24"	610 x 305 mm 24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 78



Double-sided  
50mm

See page 79



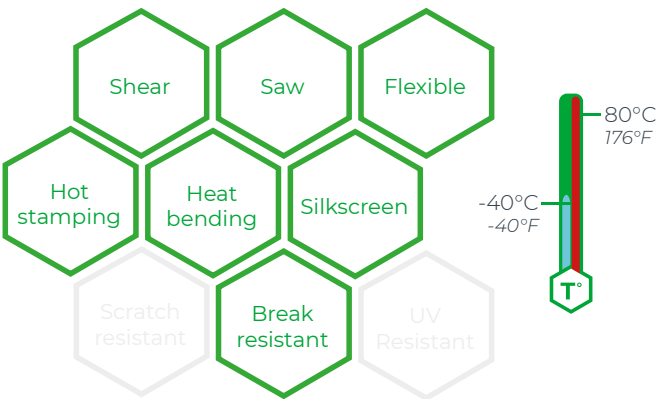
Gravofix™

See page 87



Coloured  
badges plastic  
frames

## MATERIAL CAPABILITIES



## APPLICATIONS



Pictograms



Trophy plates



Indoor signage



Badges

# METALLEX™ - HARD COAT

Metallic appearance for a high-end finish

Surface colour	Core colour	Thickness
		1,5 mm (1/16")
radiant silver	black	21892
brushed aluminum	black	21883
glossy silver	black	21882
radiant gold	black	21891
european gold	black	21884
glossy gold	black	21881

**Note:**

The surface layer of the Metallex™ Hard Coat can be lasered but the quality of the engraving may vary depending on the colours. Laser cutting is not recommended.

On demand pre-cut tags available, ideal for machines or to enhance productivity.

• The Hard Coat version of Metallex™ has a surface layer that is even more resistant to scratches and fingerprints.

• Metallex™ Hard Coat has a smooth, super glossy finish.

• Ideal for badges, trophy plates, various awards and all indoor applications.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"

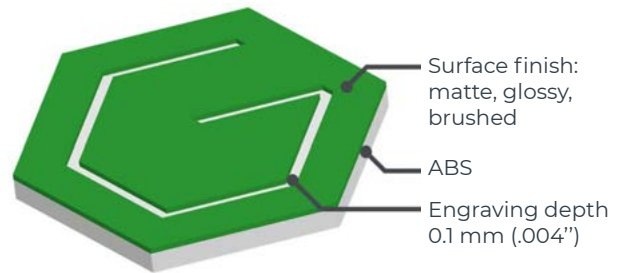


610 x 610 mm  
24 x 24"

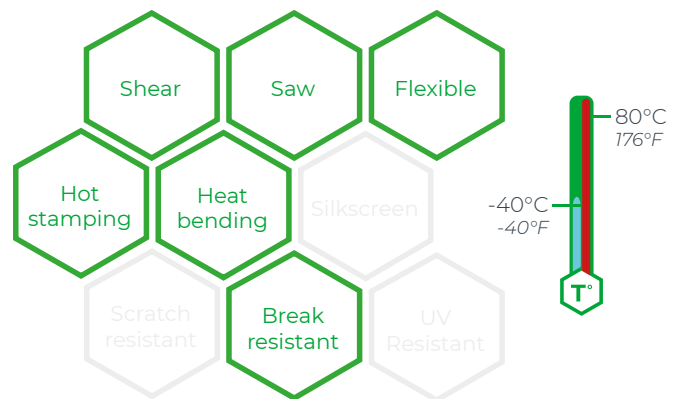


610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Ornamental plates



Indoor signage



Badges



Small signage



# GRAVOMETALL™ - GLOSSY

The high quality brass material

Surface colour	Core colour	Thickness	
		0.5 mm (0.020")	1.2 mm (0.050")
gold	gold	18407	18435

Note:

*Diamond, rotary and burnish engraving.*

*Pre-polished and lacquered.*

*Apply clear lacquer after engraving to avoid tarnishing.*

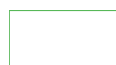
*For contrasting lettering, use Gravoxide or paint.*

• Ideal for ornamental plaques, trophy plates and high-end indoor signage.

• For outdoor use, add a protective varnish after engraving.

• High quality brass and high-end rendering with a shiny aspect.

## AVAILABLE SHEET SIZES

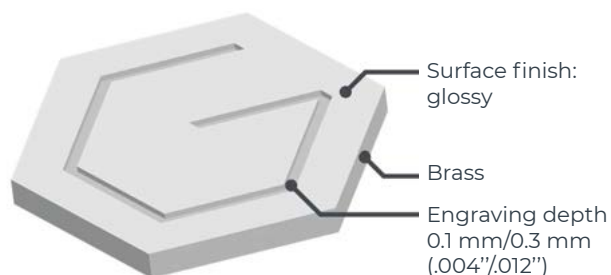


1220 x 305 mm  
48 x 12"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 73



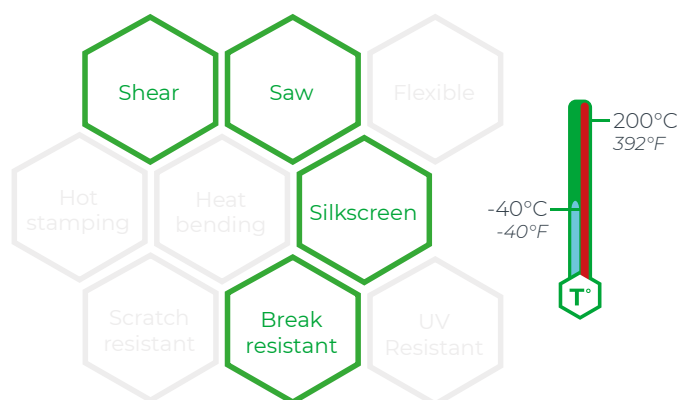
Gravoxide

See page 73



Gravolaque

## MATERIAL CAPABILITIES



## APPLICATIONS



Trophy plates



Indoor signage

# GRAVOMETALL™ - SATIN

The high quality brass material

Surface colour	Core colour	Thickness		
		0.6 mm (0.025")	1.2 mm (0.050")	1.6 mm (1/16")
gold	gold	18423	18438	18441
silver	gold	18429		

Note:

*Diamond, rotary and burnish engraving.*

*Pre-polished and lacquered.*

*Apply clear lacquer after engraving to avoid tarnishing.*

*For contrasting lettering, use Gravoxide or paint.*

• Ideal for ornamental plaques, trophy plates and high-end indoor signage.

• For outdoor use, add a protective varnish after engraving.

• Nice gold engraving contrast on the satin silver Gravometall™.

## AVAILABLE SHEET SIZES

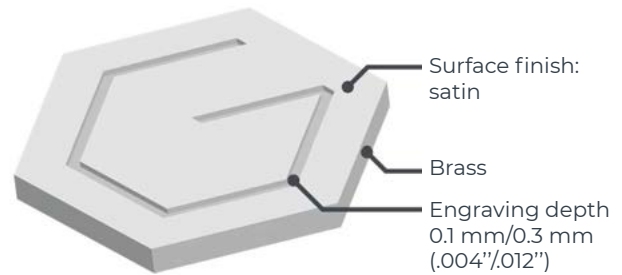


1220 x 305 mm  
48 x 12"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 73



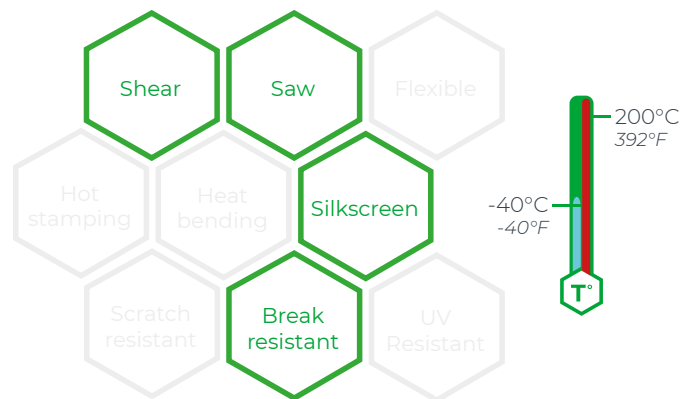
Gravoxide

See page 73



Gravolaque

## MATERIAL CAPABILITIES



## APPLICATIONS



Indoor signage



Architectural signage

# GRAVOBRASS™ EXTERIOR

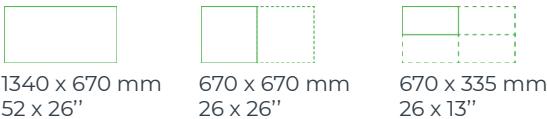
The watchmaking-quality brass for outdoor use

Core colour	Thickness			
	1.0 mm (0.040")	1.5 mm (1/16")	2.0 mm (1/12")	3.0 mm (1/8")
shiny polished brass	22032	22034	22036	22038
solid brass	22031	22033	22035	22037

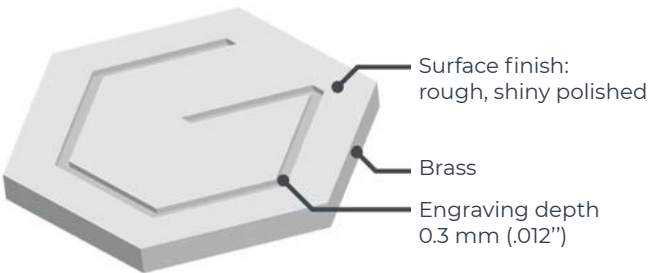
**Note:**  
 Brass oxidation is a natural phenomenon. Clean your Gravobras<sup>™</sup> Exterior regularly to preserve its brightness or add a protective varnish after engraving.  
 Solid brass is unpolished and may feature surface defects.

- High quality engraver's brass.
- Outdoor use: ideal for professional plaques and high-end signage.
- For contrasting lettering, paint fill with Gravotech paint.

## AVAILABLE SHEET SIZES



## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 77

Engravolube solution

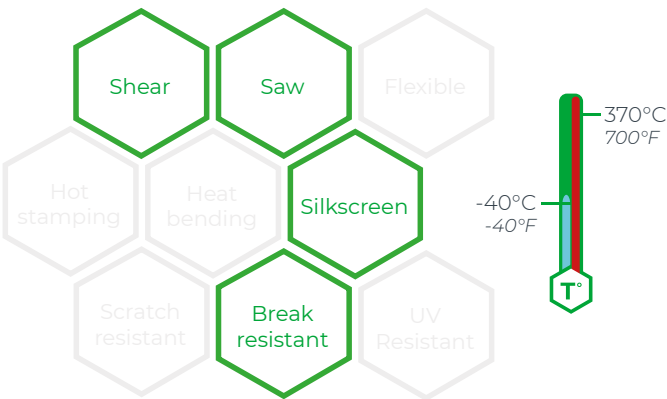
See page 73

Gravolaque

See page 73

Application Kit

## MATERIAL CAPABILITIES



## APPLICATIONS

Architectural signage

Company name plaques

High quality signage

Professional plaques



# COLORED ALUMINUM

The coloured aluminium for a striking contrast

Surface colour	Core colour	Thickness
		0.6 mm (0.025")
red	silver	34528
blue	silver	34497
satin gold	silver	34595
glossy gold	silver	34596
satin silver	silver	34625
glossy silver	silver	34626
black	silver	34455

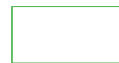
Note:  
Black, blue and red have a glossy finish.

• Ideal metal for labels, small plates and indoor signage.

• Great for creativity: astonishing contrast after rotary or fibre laser engraving. Also sublimatable.

• Thin aluminium: easy to cut and shear.

## AVAILABLE SHEET SIZES

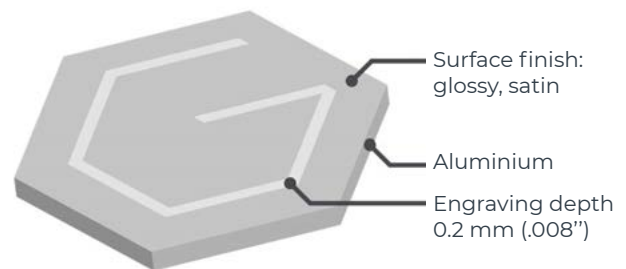


1220 x 305 mm  
48 x 12"



610 x 305 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 76



Surfex®  
lubricant

See page 78



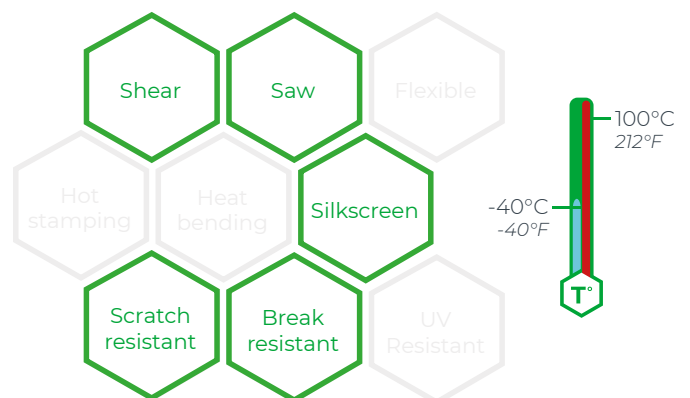
Universal  
Cleaner

See page 78



Double-sided  
19 mm

## MATERIAL CAPABILITIES



## APPLICATIONS



Directional signage



Name plate



Informative signage

# GRAVOXAL™ - MATTE

The multipurpose anodised aluminium range

Surface colour	Core colour	Thickness				
		0.5 mm (0.020")	1.0 mm (0.040")	1.5 mm (1/16")	2.0 mm (1/12")	3.0 mm (1/8")
champagne	aluminum		18581			
red	aluminum		18577	18591		
green	aluminum		18583	18597		
blue	aluminum		18579	18593		
silver	aluminum	18385	22055	18386	22057	22059
gold	aluminum	18571	18575	18589	18603	
bronze	aluminum		18585	18599		
black	aluminum	18569	18573	18587	18601	18614

Note:  
Protective film on one side.

Due to the process, there can be stains in the corners of aluminium sheets.

Laser engraving on all colours except silver. The engraving contrast may vary according to the colour.

Size 2000 x 1000 mm (78 x 39") on request.

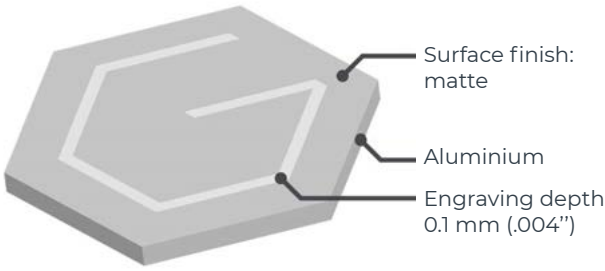
Gravoxal™ Matte silver also available in 4 mm (1/6"): Ref. 18388.

- Strong anodisation for a durable protection of the material.
- Ideal for the manufacture of front panels, the engraving of nameplates and industrial signage.
- High-definition laser engraving to be carried out even at greyscales.

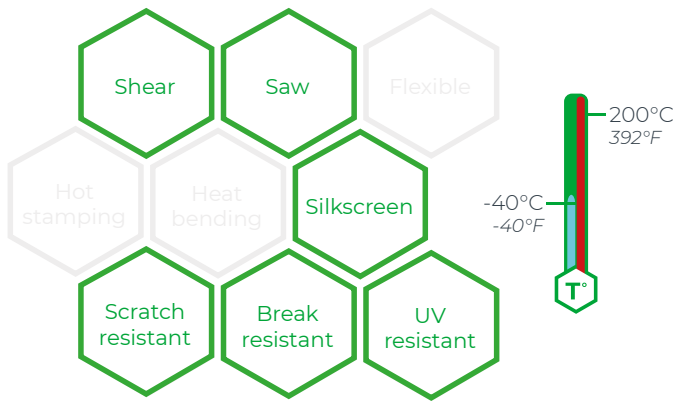
## AVAILABLE SHEET SIZES

1000 x 500 mm  
39 x 19"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Large signage



Control panels



Pictures



Small plates



# GRAVOXAL™ - GLOSSY

The multipurpose anodised aluminium range

Surface colour	Core colour	Thickness		
		1.0 mm (0.040")	1.5 mm (1/16")	2.0 mm (1/12")
champagne	aluminum	18640		
red	aluminum	18636	18658	
green	aluminum	18642	18664	
blue	aluminum	18638	18660	
silver	aluminum	18618	18646	18668
steel look	aluminum	30381	30382	30383
gold	aluminum	18630	18654	18674
black	aluminum	18624	18650	18671

Note:  
Protective film on one side.

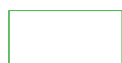
Due to the process, there can be stains in the corners of aluminium sheets.

Laser engraving on all colours except silver. The engraving contrast may vary according to the colour.

Size 2000 x 1000 mm (78 x 39") on request.

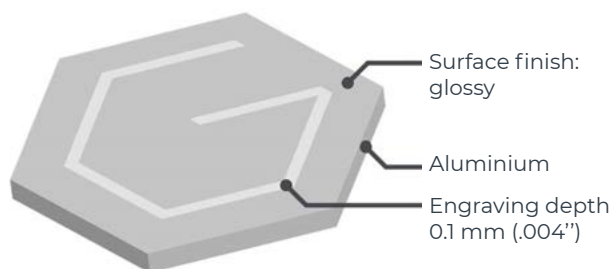
- Strong anodisation for a durable protection of the material.
- Ideal for the manufacture of front faces, the engraving of nameplates and industrial signage.
- High-definition laser engraving to be carried out even at greyscales.

## AVAILABLE SHEET SIZES

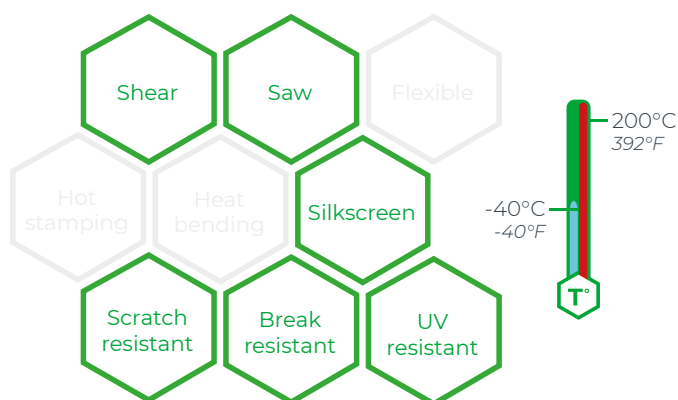


1000 x 500 mm  
39 x 19"

## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Control panel



Indoor signage



Aluminum tags



Exterior signage



# GRAVOSTRAL™

The advantages of aluminium combined with those of a phenolic base

Surface colour	Core colour	Thickness	
		1.5 mm (1/16") *	3.0 mm (1/8") *
brushed gold	black	18472	18482
silver	black	18471	

\* References in green are double-sided

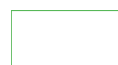
Note:

Black engraving.

One side gold and one side silver (Ref. 18472 & 18482), or silver on both sides (Ref. 18471).

- Aluminium surface on both sides.
- Black phenolic core, no paint filling required.
- Ideal for professional indoor signage.

## AVAILABLE SHEET SIZES



1220 x 605 mm  
48 x 23"

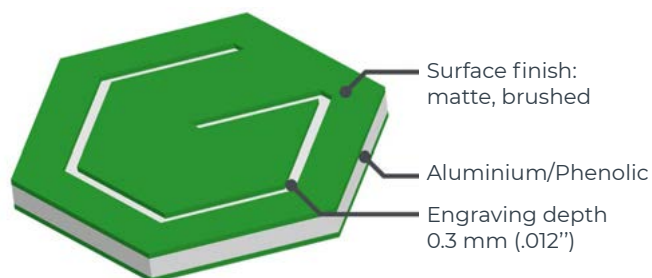


610 x 605 mm  
24 x 23"

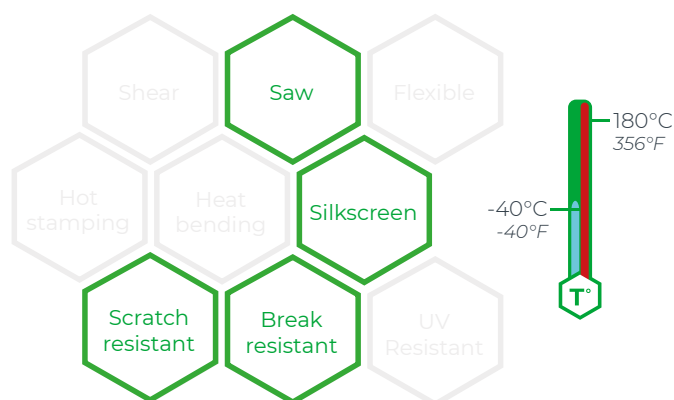


605 x 305 mm  
23 x 12"

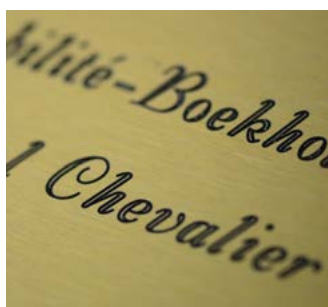
## MATERIAL SPECIFICITIES



## MATERIAL CAPABILITIES



## APPLICATIONS



Professional plaques



Identification plates



Signs for shops



Interior signage

# GRAVOSTRAT™

An economical material for demanding applications

Surface colour	Core colour	Thickness	
		1.4 mm (0.055") *	2.5 mm (0.087") *
white	black	22042	22049
yellow	black	22044	22051
red	white	22043	22050
cool grey	black	22047	
black	white	22041	22048

\* References in green are double-sided

Note:  
Gravostrat™ can be laser engraved but not laser cut.  
Gravostrat™ may be subject to slight variations in thickness.

- Double-sided rigid phenolic material with a glossy finish.
- Ideal choice for all industrial identification needs.
- Resistant to chemicals and solvents, non-flammable, conforms to military specifications ASTM D 709 ES-1, ES-2, ES-3, electrically non-conductive.

## AVAILABLE SHEET SIZES



1210 x 605 mm  
48 x 24"

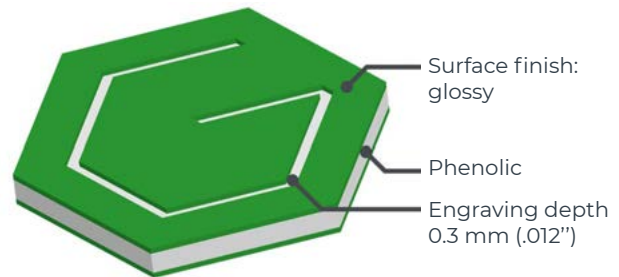


605 x 600 mm  
24 x 24"



600 x 300 mm  
24 x 12"

## MATERIAL SPECIFICITIES



## COMPLEMENTARY PRODUCTS

See page 76



Industrial  
Degraising  
Spray

See page 80



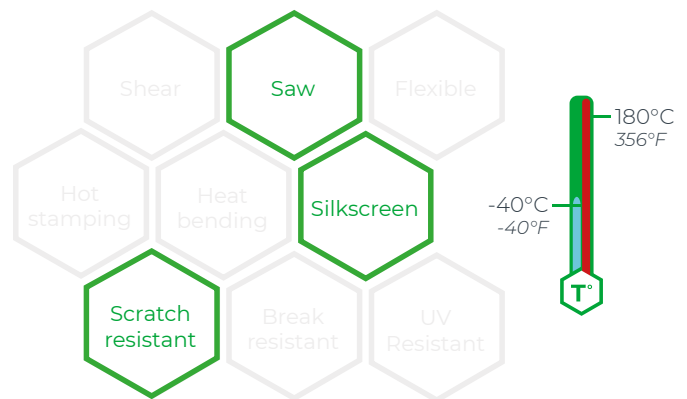
Ball chains

See page 81



Nickel-plated  
steel ring

## MATERIAL CAPABILITIES



## APPLICATIONS



Indoor signage



Safety sign



Push button



Industrial identification



# GRAVOTAC™

The indoor material for ADA compliant braille and tactile signage

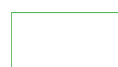
Core colour	Thickness		
	0.8 mm (1/32")	1.6 mm (1/16")	3.2 mm (1/8")
clear	32729		
bright white	37042	29879	
white	37033	29880	31236
almond		29882	
yellow	24998		
red		29885	
taupe	37047	29890	
brown	31631		
pine green	37060		
navy blue	69712	29898	
candlewick		29899	
silver grey		29900	
slate	37065	29901	
black	37037	29902	31256

- Matte finish. Complies with Americans with Disabilities Act (ADA) and Disability Discrimination Act (DDA).

- Ideal for signage in buildings open to the public.

- Save time and order your sheets with adhesive backing.

## AVAILABLE SHEET SIZES



1220 x 610 mm  
48 x 24"



610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"

## THE GRAVOTAC™ PROCESS



1° Put a 0.8 mm (1/32") profile material to 1.6 mm (1/16") or 3.2 mm (1/8") substrate.

2° Engrave using outline font.

3° Peel excess profile material off substrate.

For better visibility, choose contrasted colours.

## COMPLEMENTARY PRODUCTS

See page 76



Gravoclean

## APPLICATIONS



Indoor signage



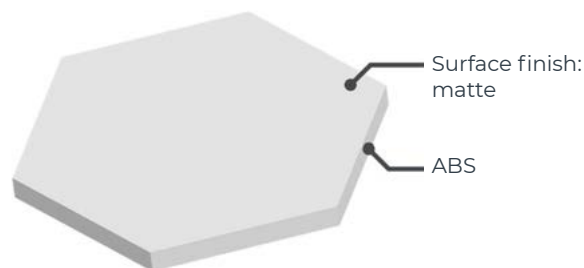
Pictograms



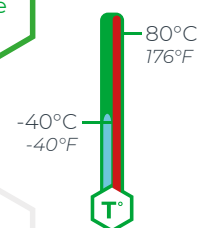
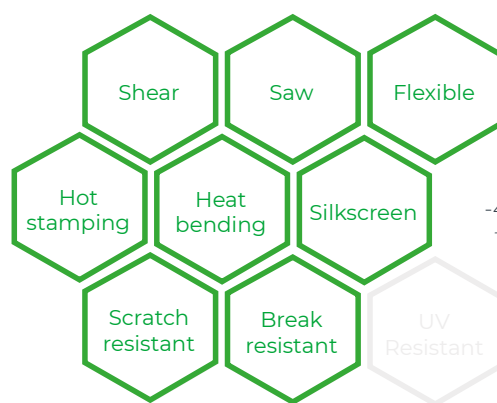
Shape cutting



Braille and tactile signage



## MATERIAL CAPABILITIES





# SIGNAGE

# SIGN HOLDERS & BASE PLATES

## COUNTER AND DESK BASES

Ideal to support small to medium-sized inserts.  
Supplied without signage plate.



	Insert thickness	Insert dimensions	Colour	Ref.
Plate stand	1.6 mm (0.06")	200 x 100 mm max. (8 x 3.94" max.)	silver	19480

## DESK HOLDERS

Ready to be placed on a table, a desk or a counter to identify a person, a function or a department.  
Supplied without signage plate.



	Insert thickness	Insert dimensions	Colour	Ref.
Slimline plate holder	1.6 mm (0.06")	178 x 25 mm (7 x 1")	silver	30072
			gold	30073
Standard plate holder		203 x 51 mm (8 x 2")	silver	30076
		254 x 51 mm (10 x 2")	silver	19479
		254 x 51 mm (10 x 1.26")	gold	34820

## DOUBLE-SIDED HOLDERS

Ideal for open/close signage or to indicate any changing information.  
Supplied without signage plate.



	Insert thickness	Insert dimensions	Colour	Ref.
Double-sided plate holder	1.6 mm (0.06")	152 x 32 mm (6 x 1.26")	silver	30074

## WALL BRACKETS

Designed to identify a department or an office. Two finishing available available: bevelled borders or square borders.

Use double-sided tape or screws to fix.

Supplied without nameplate.



*Bevelled border finish*

*Square border finish*

	Insert thickness	Insert dimensions	Fixation type	Colour	Ref.
Wall plate holder with bevelled border	1.6 mm (0.06")	203 x 51 mm (8 x 2")	screws & adhesive	gold	19476
				silver	19485
		254 x 51 mm (10 x 2")		gold	30069
				silver	30068
		102 x 25 mm (4 x 1")	adhesive	silver	19482
		152 x 25 mm (6 x 1")		silver	30066
Wall plate holder with bevelled border to be glued		203 x 38 mm (8 x 1.5")	screws	silver	34888
Wall plate holder with square border		203 x 25 mm (8 x 1")	adhesive	silver	19483
		254 x 51 mm (10 x 2")	screws	silver	65929

## CORRIDOR BRACKETS

Perfect to create a directional signage in corridors where the public flow needs strategic indications.

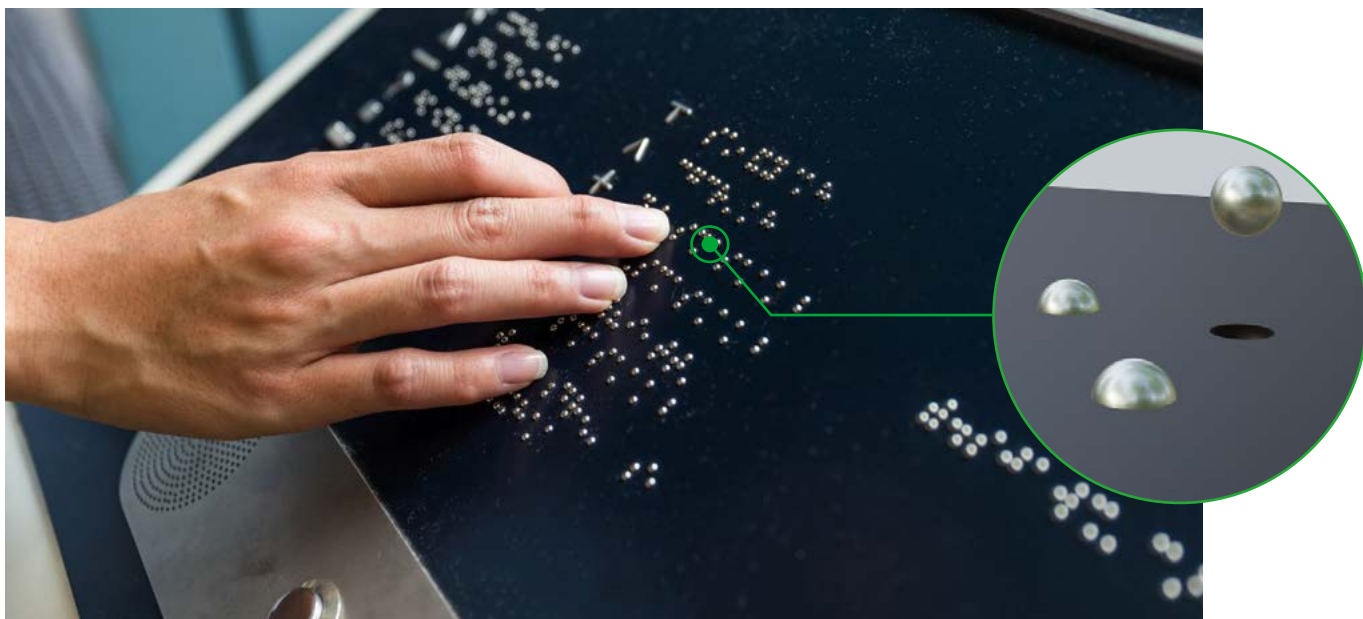
Supplied with screws and cap nuts but without any signage plate.



	Insert thickness	Insert dimensions	Fixation type	Colour	Ref.
Wall bracket	3.2 mm (0.13")	51 mm min. (2" min.)	screws	silver	19486
		102 mm min. (4" min.)		silver	19487

## Our braille solution

braille is a system of tactile writing and reading for the use of blind and visually impaired people. There is no single universal braille system: different standards are used across the world, where sizes, character spacing and line spacing are specific to each individual language.



### COMPATIBLE WITH



#### IS400

Engraving area:  
305 x 210 mm  
(12 x 8")



#### IS8000

Engraving area:  
610 x 1220 mm  
(24 x 47")

#### IS7000

Engraving area:  
610 x 810 mm  
(24 x 32")

#### IS6000

Engraving area:  
610 x 410 mm  
(24 x 16")

### SOFTWARE

The Gravostyle™ braille option allows the transcription of text into braille:



- 127 languages available.
- Totally automated procedure involving drilling followed by the insertion of beads (optional):
  - Customised cleaning and bead insertion speed.
  - Specific parameters for Gravotac™, laminates, aluminum and plastics (ABS, PMMA)



## DRILLING TOOLS

Refer to the selection guide to pick the right drilling tool reference, depending on the beads and support materials.

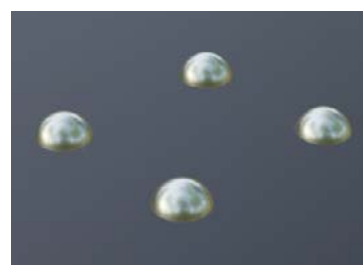
Support Material	BRAILLE TOOL SELECTION GUIDE		
	Adhesive-free materials		Materials with adhesive
	Steel beads	Acrylic beads	All beads
Metals	48767	48767	48768
Acrylics	48767	48767	48768
Gravotac™	48766	48766	48768
Phenolic	48767	48767	48768
ABS + 2Ply	48686	48686	48767

Ref: 48686 - Tool width 1.500 mm  
Ref: 48766 - Tool width 1.550 mm

Ref: 48767 - Tool width 1.565 mm  
Ref: 48768 - Tool width 1.580 mm

## BRAILLE BEADS

Ref.	Description
49933	Stainless steel beads (x10 000)*
49935	Clear acrylic beads (x10 000)
49937	White acrylic beads (x10 000)
49936	Black acrylic beads (x10 000)



\* Stainless steel beads are recommended when using our semi-automatic or automatic beads dispensers.

## BEAD DISPENSER

Automatic and semi-automatic braille kit.



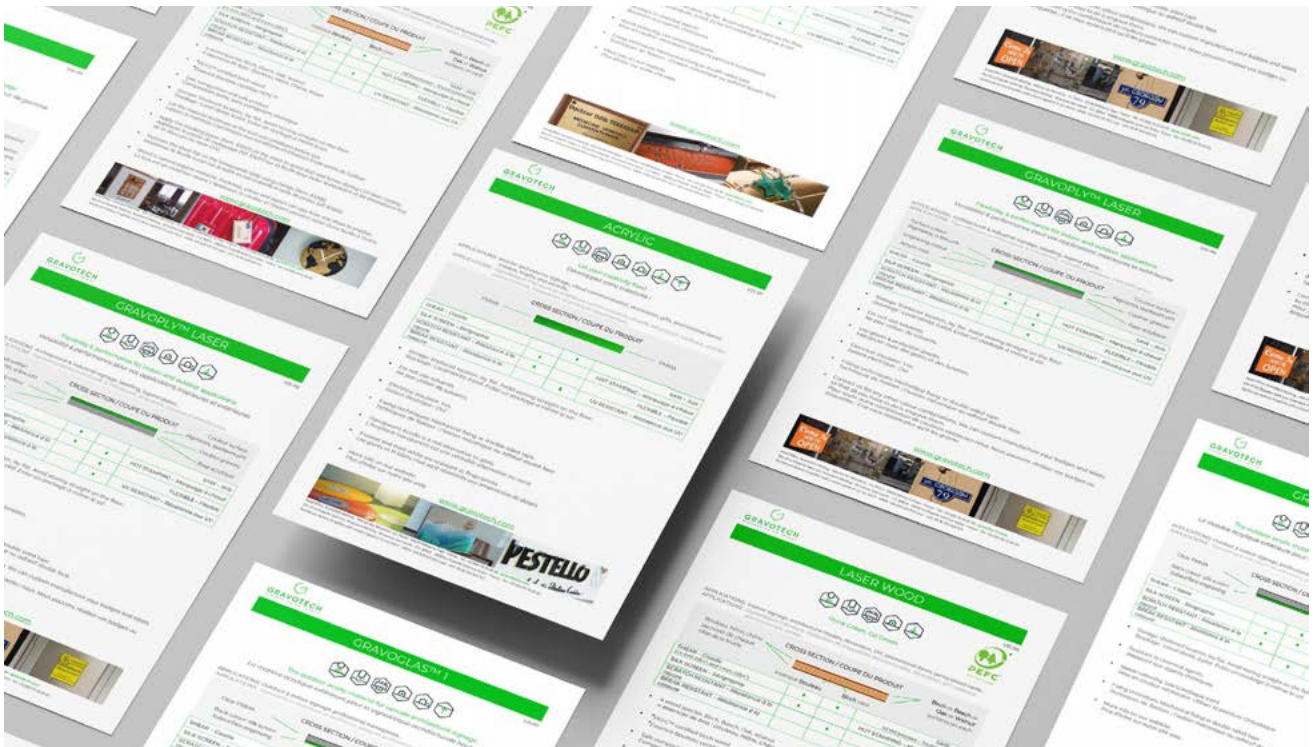
Ref.	Description
70711	Automatic braille for IS400
70713	Automatic braille for IS 6/7/8000 IQ
70714	Automatic braille for IS 6/7/8000 XP
49959	Semi-automatic braille kit for IS400 & ISx000

## MICROPEL



Antistatic solution for acrylic braille beads.  
Ref. 76254

# Did you know that we have several datasheets for our products?



## WHAT ARE TECHNICAL OR SAFETY DATASHEETS?

The technical datasheet (TDS) provides information on the composition, technical characteristics and conditions of use of our products.

The safety datasheet (SDS) is a document that includes the information necessary to prevent accidents and ensure safety when using a preparation or a hazardous (chemical) substance. This document informs professionals who use this type of product in their daily work of the risks involved. Provided by the supplier or distributor, this document must be available for all hazardous products sold.

The regulation on hazardous substances requires the provision of the safety data sheet to the end user. Gravotech goes even further in its requirement to provide information to end users and has decided to provide safety data sheets even for materials

intended for engraving (not subject to hazardous substances).

You can find SDS for the following items:

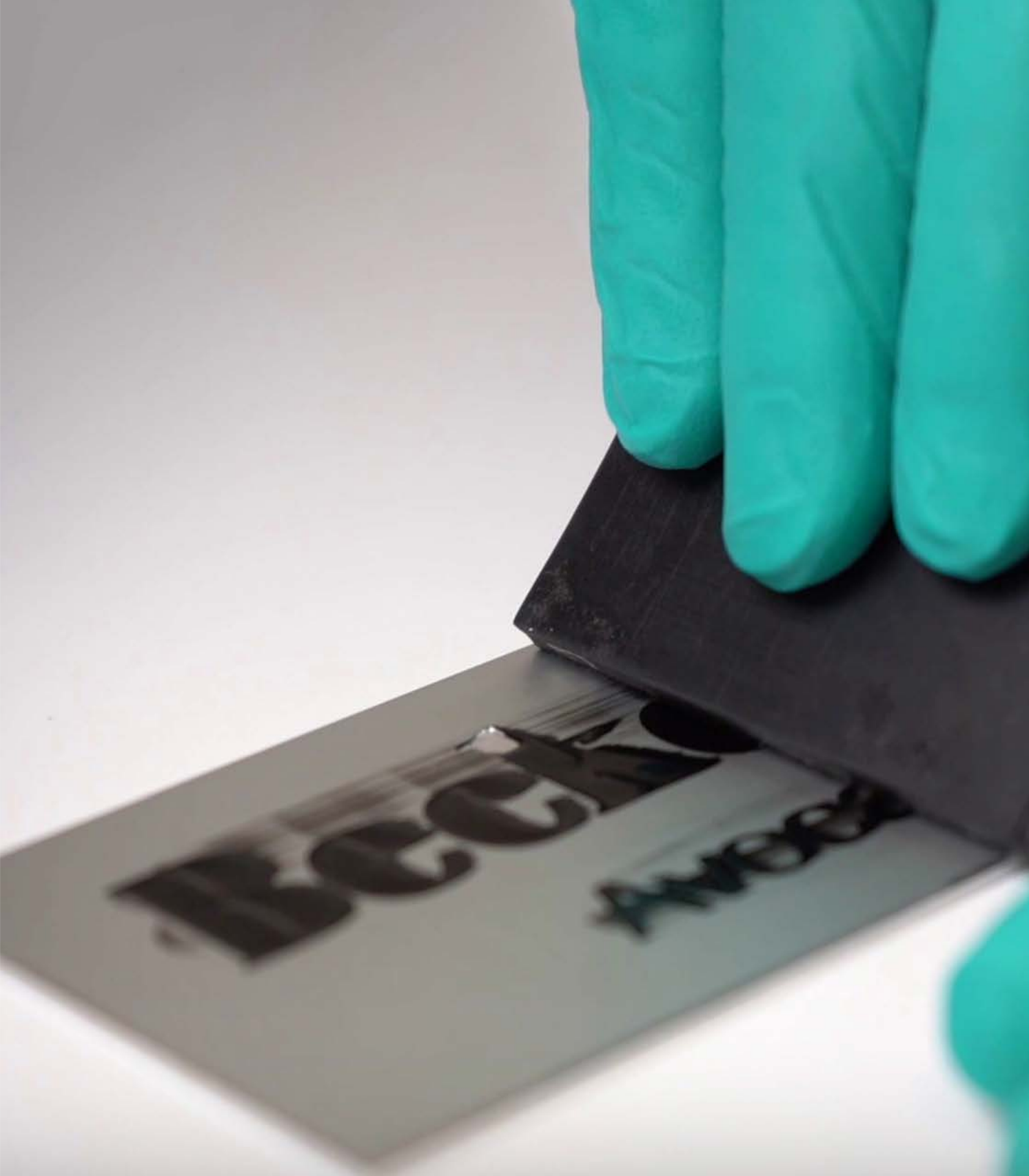
- Materials for laser engraving: plastics, acrylics, metallics and wood.
- Materials for mechanical engraving: plastics, metallics, phenolics.
- Engraving supplies: lubricants, cleaning agents, adhesives and colouring products.

SDS are the responsibility of Gravotech and must be translated by an accredited institution\*.

*\*Information is provided as a guide only.*

Our datasheets  
are available  
here:





# ENGRAVING SUPPLIES

# COLOURING

## Laser metal marking

### METAL MARKER G

The Metal Marker G is a metal black laser marking product for CO2 laser engravers. It allows a black marking on aluminum, brass, mild or stainless steel, magnesium and copper.

The liquid form of the Metal Marker G ensures a non-volatile application reducing the need for personal protective equipment (PPE) to the simple use of gloves.

Unlike aerosol products, it is not necessary to wear a protective mask.



Watch our videos!

	Packaging type	Colour	Ref.
Metal Marker G	Bottle - 90 mL (3 oz)	black	86424*



### THERMARK®

Water-based for a fast clean up. A thin coat of material can be sprayed onto the metal, then left to dry for less than 2 minutes and engraved with your laser.

The excess water-based material can easily be washed off to reveal the final black mark.

	Packaging type	Ref.
TherMark® LMM 14	Aerosol - 170 g (6 oz)	67120*
	Bottle - 50 g (1.76 oz)	67119
TherMark® LMM 6018LF1	Tape - 2.54 cm x 15 m (1" x 50')	71866
TherMark® LMM 6018LF2	Tape - 5 cm x 15 m (2" x 50')	67121



### CERMARK®

Solvent-based for easy handling before marking. This range contains a hardener that allows the products to be easily handled prior to marking with your laser (ideal for high production quota).

	Packaging type	Ref.
CerMark® LMM 6000	Aerosol - 340 g (12 oz)	68880*
	Paste - 50 g (1.76 oz)	68878*
	Paste - 250 g (8.82 oz)	68879*
	Paste - 500 g (17.64 oz)	69974*

Caution before use: these colouring products require special security measures. Use them in well ventilated rooms only and wear suitable protective clothing and gloves.

\* These items are shipped via ground transportation. For other means of transport, please consult us.

# Paints

## GRAVOLAQUE

Polyurethane, ultra shine paint, available in 6 colours. Gravolaque is designed to colour Gravoglas™ 1, Gravoglas™ 2-PLEX™ subsurface, anodised aluminium and brass. For other colours, please contact us.

Bottle delivered with 1 spout for a direct & precise application and use of appropriate quantity.



Watch our videos!



	Packaging type	Colour	Ref.
Gravolaque	Bottle with spout - 250 mL (8.45 oz)	black	72194*
		white	72195*
		red	72196*
		blue	72197*
		gold	72198*
		green	72199*
Spare spout for Gravolaque	Spout - 1 unit	N/A	72204

## NITROLAQUE



Versatile and fast drying, for colouring rotary engraving on metal, steel and plastic (except Gravoglas™ 1).

	Packaging type	Colour	Ref.
Nitrolaque	Bottle - 250 mL (8.45 oz)	white	30373*
		black	30374*

## APPLICATION KIT

Pack - 1 unit

Ref. 72886

Application kit including:

- Spatula 75 x 60 mm (2.95 x 2.36") (Ref. 72885)
  - Rubafix roll (Ref. 16248)
  - Tissues (Ref. 24296)
- (items can be ordered separately)





## Diluters



### CLEANING DILUTER FOR TOOLS

Bottle - 1 L (33.8 oz)

Ref. 19468\*



### APPLICATION DILUTER

Bottle - 1 L (33.8 oz)

Ref. 19469\*

## Oxydising agents



### GRAVOXIDE

Bottle with application pad - 90 mL (3 oz)

Ref. 21129\*

Designed to blacken fine engraving on Gravometall.  
Rotary engraving only. Bottle delivered with application cotton bud.



### ALOXIDE

Bottle with application pad - 90 mL (3 oz)

Ref. 21130\*

Designed to blacken fine engraving on glossy anodised aluminium.  
Rotary engraving only. Bottle delivered with application cotton bud.

# Wax sticks

## COLD WAX STICKS



Suitable for colouring small characters.  
Range of 6 colours available.

	Packaging type	Colour	Ref.
Cold wax sticks	Box - 5 sticks	silver	20214
		white	20215
		blue	20216
		black	20218
		gold	20219
		red	20220

## GILDING WAX

Very fine metallic particles, coated with a wax binder. Suitable for glass and metal.  
The use of gilding waxes allows to create a beautiful high value contrast.



	Packaging type	Colour	Ref.
Empire	Unit - 30 mL (1 oz)	gold	86550
Silver		silver	86551



## ODORLESS MINERAL SPIRIT

Bottle - 245 mL (8.3 oz)

Ref. 86552

This spirit helps remove gilding wax surplus around the engraving and clean the tools (spatula, brushes).

Odorless, it presents no risk of irritations or allergies.

# CLEANING

## GRAVOCLEAN

Multi-use green cleaner. Ideal to remove marks on plates before or after engraving. Non-aggressive to acrylics and ABS. Suitable for Gravogrip™ cleaning.



	Packaging type	Ref.
Gravoclean	Spray - 750 mL (25.36 oz)	73180
	Box - 50 wipes	73181



## LASER OPTICS CLEANER

Pack - 125 mL (4.22 oz)

Ref. 26327\*

Keeps your laser lens clean by removing dust and particles. Increases the optics lifetime, reduces power loss and lens heating.



## UNIVERSAL CLEANER

Bottle - 1 L (33.8 oz)

Ref. 23913\*

Ideal for cleaning metal and plastic surfaces (except ABS). Apply with a tissue.



## INDUSTRIAL DEGREASING SPRAY

Spray - 500 mL (16.9 oz)

Ref. 23912\*

To remove glue leftover on metal. Manual spraying.

# LUBRICATING

## ENGRAVING GEL

Water-based solution, Engraving gel is a non-irritating and odourless lubricant for glass, aluminium and soft steel engraving. Perfect for in-store use.



Watch our videos!

	Packaging type	Ref.
Engraving gel	Bottle with spout - 200 mL (6.76 oz)	83957



### SOLUBLE OIL

Bottle - 1 L (33.8 oz)

Ref. 12913

For glass engraving only. Automatic dispensing with M40 Gift Lubricating device.



### ENGRAVOLUBE SOLUTION

Bottle with spout - 240 mL (8 oz)

Ref. 26887

Engravolube is a special lubricant which increases cutters lifetime and ensures a clean and smooth engraving.



### VARGOL

Bottle - 500 mL (16.9 oz)

Ref. 21780

Lubricant for VA circular saws. Synthetic oil for use with metals. Application with Vargol dispenser.



### VARGOL BOTTLE DISPENSER

Unit - 1 unit

Ref. 21781

Vargol dispenser for VARGA saws, allows to set the lubricant flow according to the thickness of the material to cut.



### TARFIL™ AT

Bottle - 215 g (7.58 oz)

Ref. 19526

Designed for ferrous metal engraving with local manual application.



### VECTOLUB™ LUBRICANT OIL

Bottle - 2 L (67.6 oz)

Ref. 23494

For non ferrous metal engraving. Automatic dispensing with Gravotech Spray mist lubricating device.



### POLYCOUPE™ LUBRICANT SPRAY

Spray - 250 mL (8.45 oz)

Ref. 19527\*

Apply manually on the tool tips, for non ferrous metal engraving.



### SURFEX® LUBRICANT

Bottle - 1 L (33.8 oz)

Ref. 30368

For aluminium engraving and cutting only. Manual dispensing.

# FIXING

## Double-sided tapes



### DOUBLE-SIDED 14 MM

Unit - 14 mm x 50 m  
(0.55" x 55 yds)

Ref. 30369

For long-term mounting of engraved plates.  
Use on smooth surfaces. Can be used to fix Braille beads.



### DOUBLE-SIDED 19 MM

Unit - 19 mm x 50 m  
(0.75" x 55 yds)

Ref. 85904

For long-term mounting of engraved plates.  
Ideal for smooth surfaces.



### DOUBLE-SIDED 50 MM

Unit - 50 mm x 50 m  
(1.97" x 55 yds)

Ref. 30372

For long-term mounting of engraved plates.  
Ideal for electrical switchboards.

## Special tapes



### PROTECTIVE ADHESIVE TAPE

Unit - 50 mm x 100 m  
(1.97" x 109 yds)

Ref. 19528

To protect jewelry and brass plates while engraving.



### ADHESIVE MOUNTING TAPE

Unit - 25 mm x 25 m  
(0.98" x 27 yds)

Ref. 20151\*

For temporary mounting of plates.



### TRANSFER

Unit - 20 mm x 30 m  
(0.79" x 33 yds)

Ref. 21121

For long-term mounting of engraved plates.  
Ideal for curved surfaces, instant adhesion.



## Fixing glue



### GRAVOFIX

Bottle - 250 mL (8.45 oz)

Ref. 19360\*

Tin of solvent especially designed to fix plastic-backed pins to badges.

Always clean the surface before applying the glue to ensure a perfect adhesion.



### SEMI-ADHESIVE SPRAY GLUE

Spray - 500 mL (16.9 oz)

Ref. 23914

Aerosol for non-permanent fixing and repositioning of lightweight materials. Not recommended with expanded polystyrene.

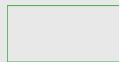
## GRAVOGRIP™

Ref. 78056

Our famous flexible material, to be placed under the part to mark or cut. Ensures a strong grip to maintain the part, faster and easier to use than jigs. For IM3, M20, M40 & IS200 use a support table.

Cut to size on request.

### Available sheet sizes



1220 x 610 mm  
48 x 24"



610 x 610 mm  
24 x 24"



610 x 305 mm  
24 x 12"



Watch our video!

## Laser Wood accessories



### MASKING PAPER

Unit - 1 unit

Ref. 83057

Protect your Laser Wood sheets before laser cutting with this masking paper.

Prevents contact of fume and dust while the laser is cutting, ensuring a neat result.



### CLAMPS

Pack - 6 units

Ref. 83366

Spring clamps designed to fasten plates such as Laser Wood to the honeycomb table. Prevents warping. Can be used with many other materials, thin or thick.

# MECHANICAL FASTENINGS

## Ball chains



### BALL CHAINS

3 colours available.  
To attach tags, medals or any drilled item to a wide range of objects (suitcase, pipe, key ring, valve, etc.).  
Made of coloured stainless steel bead of 2.42 mm (0.095"), it measures 114 mm (4.5") long.

	Packaging type	Colour	Ref.
Ball chain	Pack - 10 units	silver	69880
		gold	69883
		black	69452



### NICKEL-PLATED BRASS W/ FASTENER

Pack - 100 units  
Ref. 19534  
Beads of 2.25 mm (0.088") diameter and 150 mm (5.91") length.

### NICKEL-PLATED BRASS W/O FASTENER

Pack - 10 units  
Ref. 19535  
Beads of 2.25 mm (0.088") diameter and 1.5 m (59") length.

### FASTENERS

Box - 100 units  
Ref. 19536  
To attach beads and close ball chains. Use with 2.25 mm (0.088") diameter ball chains.



S-HOOK RINGS

Ideal to fix all your medals and tags.

	Packaging type	Colour	Ref.
S-Hook 21 mm (0.82")	Pack - 25 units	golden	30152
S-Hook 26 mm (1.02")		zinc-plated	30151

NICKEL-PLATED STEEL RING

Ideal to fix all your medals and tags.



	Packaging type	Colour	Ref.
Steel ring Ø 13 mm (0.51")	Pack - 100 units	nickel-plated	19532
Steel ring Ø 20 mm (0.78")			19530

## Wooden supports



### WOODEN SUPPORT

Unit - 1 unit

Ref. 19470

Wooden support to enhance engraved plates.

Dimensions: 340 x 240 x 20 mm (13.4 x 9.45 x 0.79").

Composition: tropical hardwood. Indoor & outdoor use.

## Screws and spacers

### SCREWS



Includes screws and screw covers. Ensures a very high quality finishing of the mounted plates.

	Packaging type	Colour	Ref.
Screws 4 x 20 mm (0.16 x 0.79")	Pack - 100 units	gold	25731
		silver	25732
Screws 4 x 30 mm (0.16 x 1.18")		gold	25733
		silver	25734

### SPACERS



The ideal fasteners to add a finishing touch to professional plates, hotel signage etc.

	Packaging type	Outside diameter	Distance from wall	Possible material thickness	Inside diameter	Colour	Ref.
Rounded spacers	Pack - 4 units	15 mm (0.59")	26 mm (1.02")	0-14 mm (0-0.55")	9 mm (0.35")	golden	19471
						silver	19472

# Stainless steel support

## STAINLESS STEEL PIPE SUPPORT



When gluing labels on hot pipes is not possible due to high temperatures (i.e over 70° C / 158° F), fixing them becomes very easy with a stainless support.  
Rounded corners. Hole diameter 3.2 mm (0.125").

	Packaging type	Ref.
Pipe support 80 x 40 mm (3.15 x 1.6")	Pack - 10 units	19547
Pipe support 120 x 60 mm (4.72 x 2.36")		19548



## COLLARS & HEADS

Unit - 25 m (27 yds) & 50 heads

Ref. 19551

This kit contains collars and heads to attach the stainless steel support and its sign directly onto any pipe.  
Delivered in a 25 m (27 yds) roller including 50 attach heads.

# Plant label holder



## ALUMINIUM PLANT LABEL HOLDER

Unit - 1 unit

Ref. 30149

Composed of 300 mm (11.81") long shaft and a flat slanted support able to receive a 120 x 53 mm (4.72 x 2.08") sized label.  
Suitable for 1.6 mm (1/16") thick material.



## ZINC-PLATED STEEL PLANT LABEL HOLDER

Unit - 1 unit

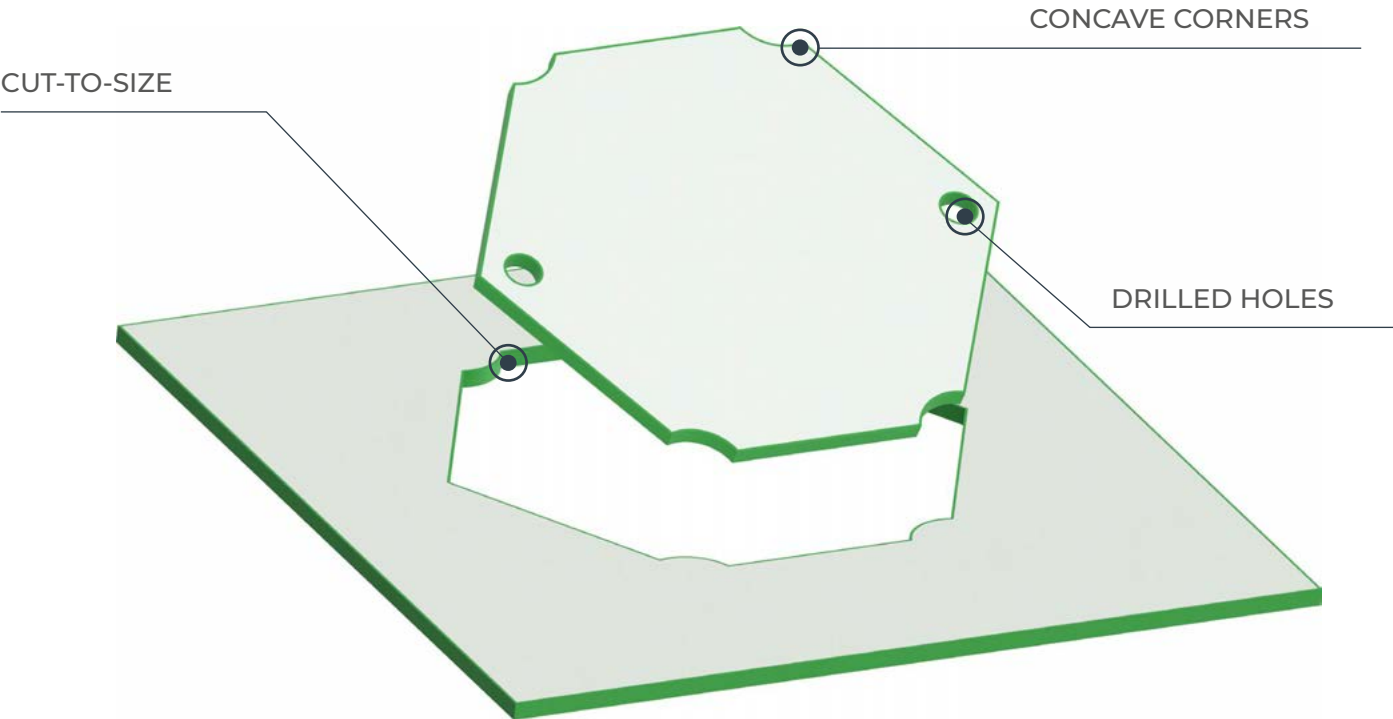
Ref. 30150

Composed of 600 mm (23.62") long shaft and a flat slanted support can hold a 120 x 48 mm (4.72 x 1.89") sized label.  
Suitable for 1.6 mm (1/16") thick material.



# Is your machine not available to handle this new and urgent order?

We provide custom-made plates according to your specifications, from one unit to series.



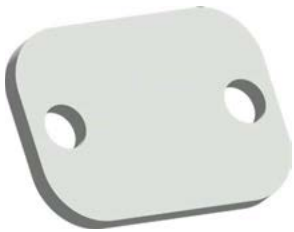
SHAPES

Custom shapes made to your specifications.



BEVELLING

Bevelling is cutting the edges with a 45° angle to create a slope all around the part.



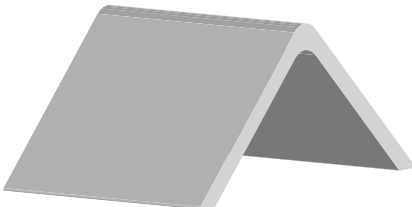
DRILLED HOLES

To accommodate your metal and plastic mounting needs, diameter and position are customisable.



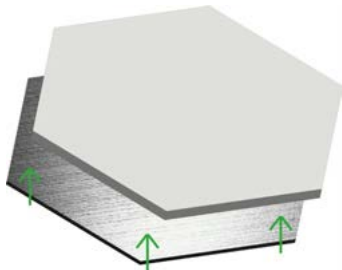
ROUNDED / CONCAVE CORNERS

We offer a wide selection of profiles and radiuses for corners.



BENDING

Plastic materials can be bent into stand-up display signs, badges, etc. Maximum length of the bend is 500 mm (20").



BACKING

**Adhesive:** 467MP or 468MP available depending on the roughness of the substrate.

**Magnetic:** Ideal for metallic shelves, magnetic backing can be applied to plates, strips and sheets.





# ENGRAVABLES

# CREATE YOUR OWN BADGES

Make your own badges with any Gravotech engraving material by simply adding a fixing device.



Watch our videos!

## Badges hardware with adhesive back



### COMPACT MAGNETIC FASTENER

Box - 10  
25 x 15 mm (0.98 x 0.59")  
Ref. 19362

### LARGE MAGNETIC FASTENER

Pack - 10  
45 x 15 mm (1.77 x 0.59")  
Ref. 30365

### SAFETY PIN

Pack - 50  
42 x 9 mm (1.65 x 0.35")  
Ref. 30364

### CLIP WITH SAFETY PIN

Pack - 50  
24 x 12 mm (0.94 x 0.47")  
Ref. 19358

## Badges hardware for heat fusing



### SAFETY PIN

Unit - 1  
Ref. 30355

### CLUTCH

Unit - 1  
Ref. 30358

# Badges hardware to be glued

These fasteners need to be glued to the badges with Gravofix. Only works with ABS material.



## CLUTCH BAR

Pack - 20

Ref. 30362



## SAFETY PIN

Pack - 50

42 x 8 mm (1.65 x 0.31")

Ref. 19345



## PIN WITH CLUTCH

Pack - 50

Ø 11 mm (Ø 0.43")

Ref. 30363

## GRAVOFIX

Tin of solvent especially designed to fix plastic-backed pins to badges.

Always clean the surface before applying the glue to ensure a perfect adhesion.



	Packaging type	Ref.
Gravofix	Bottle - 250 mL (8.45 oz)	19360*



## BADGES COLOURED PLASTIC FRAMES

Enhance any badge by adding a golden or silver effect frame. Ideal with a 0.8 mm (1/32") thick material. Delivered without fastener.

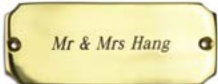
	Packaging type	Colour	Ref.
Gold plastic frame	Pack - 50	gold	19354
Silver plastic frame		silver	19355

\* These items are shipped via ground transportation. For other means of transport, please consult us.

# DOOR PLATES

## Premium solid brass door plates

Large variety of shapes available. These solid brass door plates are all varnished to prevent oxidation. Use Gravotech colouring products to create a contrasted engraving.



MODEL A

MODEL B

MODEL C

MODEL D

66 x 37 mm (2.60 x 1.46")	
Unit - 1	Ref. 27487
Pack - 6	Ref. 78939

105 x 42 mm (4.14 x 1.65")	
Unit - 1	Ref. 21812
Pack - 6	Ref. 78927

105 x 54 mm (4.14 x 2.13")	
Unit - 1	Ref. 22088
Pack - 6	Ref. 78929

100 x 40 mm (3.94 x 1.58")	
Unit - 1	Ref. 22089
Pack - 6	Ref. 78935



MODEL E

MODEL F

MODEL G

MODEL H

83 x 48 mm (3.27 x 1.89")	
Unit - 1	Ref. 22090
Pack - 6	Ref. 78932

135 x 65 mm (5.32 x 2.56")	
Unit - 1	Ref. 22091
Pack - 6	Ref. 78931

130 x 30 mm (5.12 x 1.18")	
Unit - 1	Ref. 22092
Pack - 6	Ref. 78938

97 x 33 mm (3.82 x 1.30")	
Unit - 1	Ref. 22093
Pack - 6	Ref. 78936



MODEL I

MODEL J

MODEL K

MODEL L

160 x 60 mm (6.30 x 2.36")	
Unit - 1	Ref. 22094
Pack - 6	Ref. 78926

100 x 28 mm (3.94 x 1.10")	
Unit - 1	Ref. 22095
Pack - 6	Ref. 78930

122 x 42 mm (4.81 x 1.65")	
Unit - 1	Ref. 22096
Pack - 6	Ref. 78928

115 x 40 mm (4.53 x 1.58")	
Unit - 1	Ref. 30085
Pack - 6	Ref. 78933



# Gold'n door plates

Brass door plates coated with ultra resistant varnish and golden effect.  
Easy to install thanks to the glued back.  
Use Gravotech colouring products to create a contrasted engraving.



MODEL U.1.

150 x 50 mm (5.91 x 1.97")	
Unit - 1	Ref. 48336



MODEL U.2.

150 x 50 mm (5.91 x 1.97")	
Unit - 1	Ref. 48335



MODEL V.1.

145 x 45 mm (5.71 x 1.77")	
Unit - 1	Ref. 48338



MODEL V.2.

145 x 45 mm (5.71 x 1.77")	
Unit - 1	Ref. 48337



MODEL W.1.

135 x 65 mm (5.32 x 2.56")	
Unit - 1	Ref. 48334



MODEL W.2.

135 x 65 mm (5.32 x 2.56")	
Unit - 1	Ref. 48333



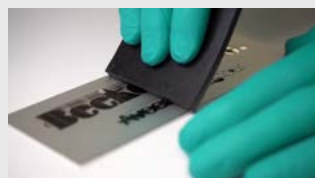
MODEL X.

150 x 85 mm (5.91 x 3.35")	
Unit - 1	Ref. 48339

## GRAVOLAQUE

Polyurethane, ultra shine paint, available in 6 colours. Gravolaque is designed to colour Gravoglas™ 1, Gravoglas™ 2-PLEX™ subsurface, anodised aluminium and brass. For other colours, please contact us.

Bottle delivered with 1 spout for a direct & precise application and use of appropriate quantity.



Watch our videos!

	Packaging type	Colour	Ref.
Gravolaque	Bottle with spout - 250 mL (8.45 oz)	black	72194*
		white	72195*
		red	72196*
		blue	72197*
		gold	72198*
		green	72199*
Spare spout for Gravolaque	Spout - 1 unit	N/A	72204

\* These items are shipped via ground transportation. For other means of transport, please consult us.

# MEDALS

## Anodized aluminium medals

Anodized aluminium medals with hole.  
Can be diamond dragged, milled or laser engraved.  
Golden and silver medals will result in a non-contrasting engraving with a CO2 laser.  
  
Packaged by 10.



MEDAL A - LARGE BONE

25 x 38 mm  
(0.98 x 1.49")



MEDAL B - SMALL BONE

19 x 32 mm  
(0.74 x 1.25")



MEDAL C - LARGE PAW

35 x 33 mm  
(1.37 x 1.29")



MEDAL D - SMALL PAW

28 x 26 mm  
(1.1 x 1.02")



MEDAL E - LARGE HEART

32 x 32 mm  
(1.25 x 1.25")



MEDAL F - SMALL HEART

25 x 25 mm  
(0.98 x 0.98")



MEDAL G - SMALL  
CIRCLE

25 x 25 mm  
(0.98 x 0.98")



MEDAL H - MILITARY TAG

28 x 50 mm  
(1.1 x 1.96")



MEDAL I - CLOVER

33 x 33 mm  
(1.29 x 1.29")



MEDAL J - LARGE  
CIRCLE

38 x 38 mm  
(1.49 x 1.49")

**MEDAL A - LARGE BONE**

Colour	Ref.
silver	69285
gold	69286
blue	69287
light blue	69288
red	69289
green	69290
purple	69291
pink	69293
black	69294

**MEDAL B - SMALL BONE**

Colour	Ref.
silver	69295
gold	69296
blue	69297
light blue	69298
red	69299
green	69300
purple	69301
pink	69303
black	69304

**MEDAL C - LARGE PAW**

Colour	Ref.
silver	69305
gold	69306
blue	69307
red	69309

**MEDAL D - SMALL PAW**

Colour	Ref.
silver	69315
blue	69317
red	69319
pink	69323
black	69324

**MEDAL E - LARGE HEART**

Colour	Ref.
pink	69273
red	69269
gold	69266
silver	69265

**MEDAL F - SMALL HEART**

Colour	Ref.
silver	69275
gold	69276
red	69279
pink	69283

**MEDAL G - SMALL CIRCLE**

Colour	Ref.
silver	69325
gold	69326
blue	69327
red	69329
black	69334

**MEDAL H - MILITARY TAG**

Colour	Ref.
gold	69366
silver	69365
blue	69367
light blue	69368
red	69369
green	69370
orange	69372
black	69374

**MEDAL I - CLOVER**

Colour	Ref.
green	69420

**MEDAL J - LARGE CIRCLE**

Colour	Ref.
gold	69336
blue	69337
red	69339
black	69344

**BALL CHAINS**

To attach tags, medals or any drilled item to a wide range of objects (suitcase, pipe, key ring, valve, etc.).

Made of coloured stainless steel bead of 2.42 mm (0.095"), it measures 114 mm (4.5") long.

	Packaging type	Colour	Ref.
Ball chain	Pack - 10 units	silver	69880
		gold	69883
		black	69452

## Brass medals

Brass medal with effect «shiny gold» or «nickel-plated».

Includes one or several holes for fixing.

Can be diamond dragged, milled or laser engraved.

Use Gravotech colouring products to create a contrasted engraving.

### MODEL A



Colour	Dimensions	Hole diameter	Packaging type	Ref.
golden	30 x 31 mm (1.18 x 1.22")	3.5 mm (0.14")	Pack - 10	23906

### MODEL B



Colour	Dimensions	Hole diameter	Packaging type	Ref.
nickel-plated	15 x 71 mm (0.59 x 2.79")	3 mm (0.12")	Pack - 10	47820

### MODEL C



Colour	Dimensions	Hole diameter	Packaging type	Ref.
golden	12 x 61 mm (0.47 x 2.40")	3 mm (0.12")	Pack - 10	47818
nickel-plated			Pack - 10	47819

### MODEL D



Colour	Dimensions	Hole diameter	Packaging type	Ref.
golden	Ø 33 mm (Ø 1.29")	4 mm (0.16")	Pack - 10	47813
nickel-plated			Pack - 10	47810

### MODEL E



Colour	Dimensions	Hole diameter	Packaging type	Ref.
golden	Ø 25 mm (Ø 0.98")	4 mm (0.16")	Pack - 10	47812
nickel-plated			Pack - 10	47809

### MODEL F



Colour	Dimensions	Hole diameter	Packaging type	Ref.
golden	Ø 22 mm (Ø 0.86")	4 mm (0.16")	Pack - 10	47811
nickel-plated			Pack - 10	47808

## Stainless steel medals

Recommended for harsh environment, ideal for industrial applications or any application with an extended lifetime.

Use Gravotech colouring products to create a contrasted engraving.



### MODEL G

Colour	Dimensions	Hole diameter	Packaging type	Ref.
steel	25 x 29 mm (1.98 x 1.14")	3.5 mm (0.12")	Pack - 10	30161



### MODEL H

Colour	Dimensions	Hole diameter	Packaging type	Ref.
steel	34 x 34 mm (1.33 x 1.33")	3.5 mm (0.12")	Pack - 10	30162



### MODEL I

Colour	Dimensions	Hole diameter	Packaging type	Ref.
steel	30 x 31 mm (1.18 x 1.22")	3.5 mm (0.12")	Pack - 10	23907

## Hotel key rings

Hotel key ring made from anodized aluminum with a rubber shock ring to prevent scratches. Can be diamond dragged, milled or laser engraved.

Delivered individually.

### RECTANGULAR HOTEL KEY RINGS



Colour	Dimensions	Ref.
silver	29 x 88 mm (1.15 x 3.4")	30132
gold		30133

### ROUNDED HOTEL KEY RINGS



Colour	Dimensions	Ref.
silver	29 x 80 mm (1.15 x 3.15")	30134
gold		30135



# ORNAMENTAL PLATES

## Ornamental metallic plates

Natural steel or golden aspect ornamental plates.  
Can be diamond dragged, milled or laser engraved. Includes 2 holes on the sides for fixing.  
Dedicated to high value gifting, awards or artistic signage.  
Packaged by 50 units.

### GRAVOXAL™, NATURAL STEEL ASPECT



Gravotech material	Colour	Dimensions	Hole diameter	Ref.
Gravoxal™, steel look 1.0 mm (0.040")	steel	71 x 15 mm (2.80 x 0.59")	3 mm (1/8")	30125
		89 x 15.9 mm (3.51 x 0.63")		30123
		61 x 12 mm (2.40 x 0.47")		30124

### GRAVOMETALL™, GOLDEN ASPECT



Gravotech material	Colour	Dimensions	Hole diameter	Ref.
Gravometall™ 0.6 mm (0.025")	satin gold	61 x 12 mm (2.40 x 0.47")	3 mm (1/8")	58786
	glossy gold			58785
	satin gold	71 x 15 mm (2.80 x 0.59")		58788
	glossy gold			58787

### METALLEX™



Gravotech material	Colour	Dimensions	Hole diameter	Ref.
Metallex™ 1.5 mm (1/16")	matte silver/ black	63.5 x 9.5 mm (2.50 x 0.37")	3 mm (1/8")	30112

## Auto-adhesive ornamental plates

Small rounded shaped Gravometall™ plates with adhesive back.  
Can be diamond dragged, milled or laser engraved.  
Dedicated to high value gifting, awards or artistic signage.  
Packaged by 50 units.

### SELF-ADHESIVE GRAVOMETALL™



Gravotech material	Colour	Dimensions	Ref.
Gravometall™ 0.6 mm (0.025")	satin silver	40 x 10 mm (1.58 x 0.39")	49125
	satin gold		61323

# KEY TAGS

## Aluminium tags

Suitable for milling or laser engraving.

Initially dedicated to key tags but also very popular in industrial identification and signage.

Packaged by 10 units.



### ROUNDED ALUMINIUM KEY TAGS

Colour	Dimensions	Hole diameter	Ref.
blue	30 mm (1.18")	4 mm (0.15")	30138
green			30139
gold			30136
red	38 mm (1.49")		30141

### SHAPED ALUMINIUM KEY TAGS



Colour	Dimensions	Hole diameter	Ref.
red	65 x 30 mm (2.55 x 1.18")	4 mm (0.15")	19193
blue			19194
green			19195
gold			19196

### RECTANGULAR ALUMINIUM KEY TAGS



Colour	Dimensions	Hole diameter	Ref.
red	40 x 16 mm (1.57 x 0.62")	4 mm (0.15")	19189
blue			19190
green			19191
gold			19192

## Ties

### NICKEL-PLATED STEEL RING



Colour	Dimensions	Packaging type	Ref.
nickel-plated	Ø 13 mm (Ø 0.51")	Pack - 100	19532
	Ø 20 mm (Ø 0.78")	Pack - 100	19530

# ELECTRICAL IDENTIFICATION

## Legend plates type 440

To identify electrical and industrial switches.  
Packaged by 50 units.



### TYPE 440 BLACK WHITE

Gravotech material	Colour	Dimensions	Hole diameter	Ref.
Gravoply™ 1 1.6 mm (1/16")	black/white	30 x 40 mm (1.18 x 1.57")	22.5 mm (0.88")	19243
Gravoply™ 2 0.8 mm (1/32")				22071
			24.5 mm (0.96")	19240



### TYPE 440 WHITE BLACK

Gravotech material	Colour	Dimensions	Hole diameter	Ref.
Gravoply™ 1 1.6 mm (1/16")	white/black	30 x 40 mm (1.18 x 1.57")	22.5 mm (0.88")	19244
Gravoply™ 2 0.8 mm (1/32")				22072
			24.5 mm (0.96")	19241



### TYPE 440 RED WHITE

Gravotech material	Colour	Dimensions	Hole diameter	Ref.
Gravoply™ 1 1.6 mm (1/16")	red/white	30 x 40 mm (1.18 x 1.57")	22.5 mm (0.88")	19245
Gravoply™ 2 0.8 mm (1/32")				22073
			24.5 mm (0.96")	22066



### TYPE 440 BLACK WHITE RED

Gravotech material	Colour	Dimensions	Hole diameter	Ref.
Gravoply™ 2 double-sided 0.8 mm (1/32")	black/white/red	30 x 40 mm (1.18 x 1.57")	22.5 mm (0.88")	22075
			24.5 mm (0.96")	22068



### TYPE 440 WHITE BLACK YELLOW

Gravotech material	Colour	Dimensions	Hole diameter	Ref.
Gravoply™ 2 double-sided 0.8 mm (1/32")	white/black/ yellow	30 x 40 mm (1.18 x 1.57")	24.5 mm (0.96")	22069

# Strips for electrical cabinets

To identify item lines on electrical cabinet doors or boards.  
Minimum of order: 25 units.  
Other dimensions, colors or materials available on demand.

## STRIPS 610 X 10 MM



Gravotech material	Colour	Dimensions	Ref.
Gravoply™ 2 1.5 mm (1/16") with adhesive back	black/white	610 x 10 mm (24 x 0.39")	19283
	white/black		19287
	red/white		19291
	blue/white		19295

## STRIPS 610 X 15 MM

Gravotech material	Colour	Dimensions	Ref.
Gravoply™ 2 1.5 mm (1/16")	white/black	610 x 15 mm (24 x 0.59")	19272
Gravoply™ 2 1.5 mm (1/16") with adhesive back	black/white		19284
	white/black		19288
	red/white		19292
	blue/white		19296

## STRIPS 610 X 20 MM

Gravotech material	Colour	Dimensions	Ref.
Gravoply™ 2 1.5 mm (1/16")	white/black	610 x 20 mm (24 x 0.79")	19273
Gravoply™ 2 1.5 mm (1/16") with adhesive back	black/white		19285
	white/black		19289
	red/white		19293
	blue/white		19297

## STRIPS 610 X 30 MM

Gravotech material	Colour	Dimensions	Ref.
Gravoply™ 2 1.5 mm (1/16") with adhesive back	black/white	610 x 30 mm (24 x 1.18")	19286
	white/black		19290
	red/white		19294
	blue/white		19298

# Labels for electrical items

Unitary identification of a device, inside or outside the electrical cabinet.  
Packaged by 50 units.



## LABELS 50 X 15 MM

Gravotech material	Colour	Dimensions	Ref.
Gravoply™ 2 1.5 mm (1/16") with adhesive back	black/white	50 x 15 mm (1.97 x 0.59")	19251
	white/black		19252

## LABELS 60 X 15 MM

Gravotech material	Colour	Dimensions	Ref.
Gravoply™ 2 1.5 mm (1/16") with adhesive back	black/white	60 x 15 mm (2.36 x 0.59")	19255
	white/black		19256

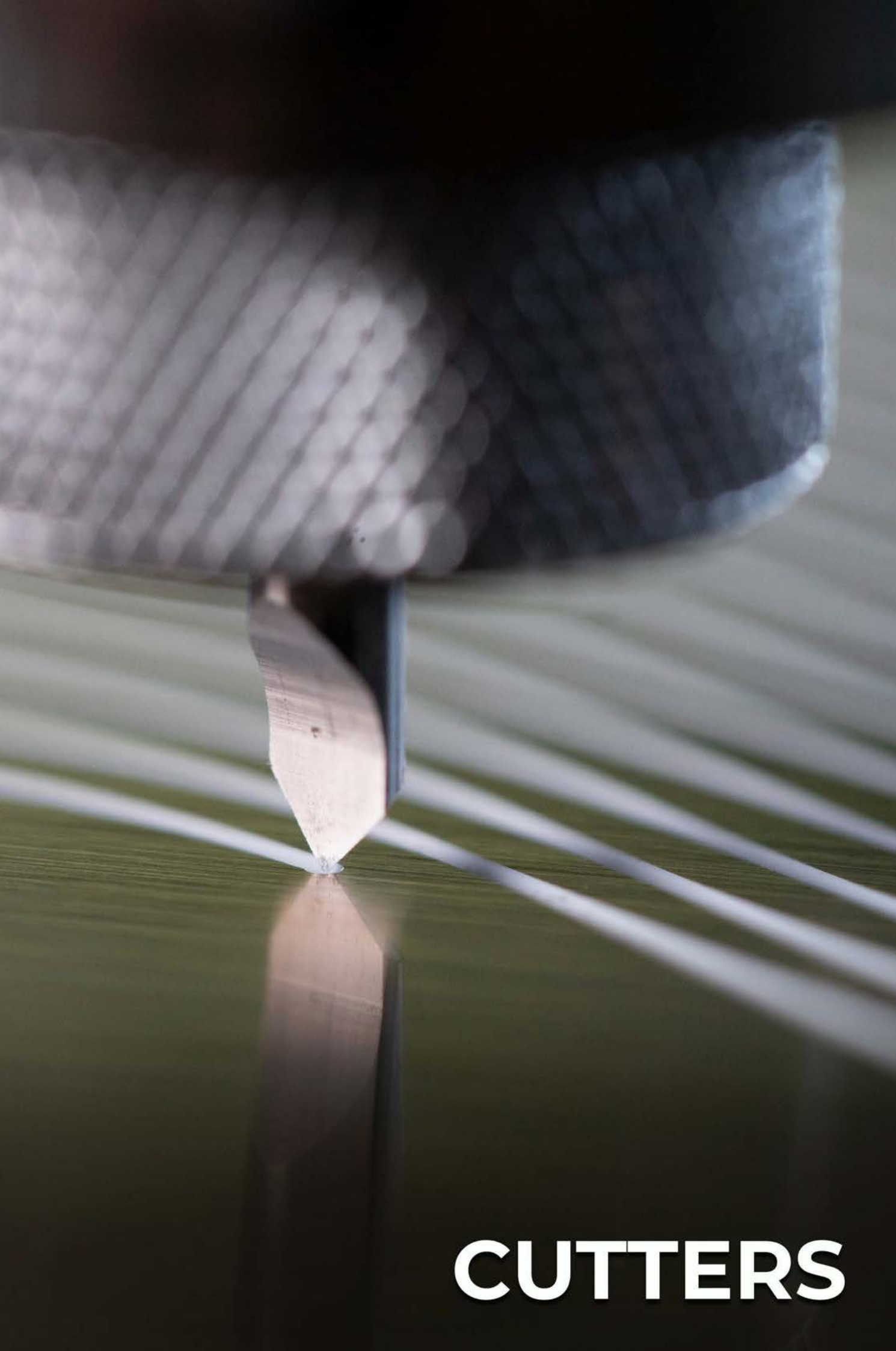
## LABELS 60 X 20 MM

Gravotech material	Colour	Dimensions	Ref.
Gravoply™ 2 1.5 mm (1/16") with adhesive back	black/white	60 x 20 mm (2.36 x 0.79")	19259
	white/black		19260

## LABELS 80 X 40 MM

Gravotech material	Colour	Dimensions	Ref.
Gravoply™ 2 1.5 mm (1/16") with adhesive back	black/white	80 x 40 mm (3.15 x 1.57")	19263
	white/black		19264





# CUTTERS

# Gravotech cutters: engraving & cutting

## TWINCUT SOLUTION

### COMPOSE YOUR TOOL



The Twincut interchangeable cutters are designed to be used with a single tool holder.

Twincut has a wide range of inserts (carbide cutters) that covers all cutting and engraving applications, in plastic and metal, including stainless steel engraving and precious metal cutting.

Save up to 30% of your total rotary engraving tool cost.

## ONECUT



### Efficient and convenient

Most standard cutters are available with either a HSS (High Speed Steel) shaft or a micrograin carbide shaft.

## PERCUT



### Productivity and endurance

Short tools for demanding machining applications requiring a collet or high-speed spindle.

## DIAMONDS



### Delicacy and precision

For scribing or dot marking metals and glass. Rotating or tracing diamonds are available in the Onecut and Twincut ranges.

## FIND THE RIGHT RANGE FOR YOUR MACHINE












	Engraving / Cutting / Drilling	Scribing (Diamond dragging)
M10	N/A	Twincut
M20 / IM3	Onecut 3.17 mm	
M20 V3 M40 IS200	Twincut Onecut 4.36 mm	Twincut Onecut 4.36 mm
IS400	Twincut (with collet or high frequency spindles) Onecut 4.36 mm Onecut 6.35 mm Percut (with collet or high frequency spindles)	Twincut (with collet or high frequency spindles) Onecut 4.36 mm Onecut 6.35 mm (with collet spindle)
ISx000	Twincut (with collet or high frequency spindles) Onecut 6.35 mm Percut (with collet or high frequency spindles)	Onecut 6.35 mm (with collet spindle) Twincut (with collet or high frequency spindles)

FIND THE RIGHT SHAPE FOR YOUR WORK

	Engraving	Cutting	Drilling	Scribing (Diamond dragging)
Twincut	Conical Conical double cone Flat end cylindrical 1/4 Rounded cylindrical Round end cylindrical	Single lip Double lips	Drilling	Faceted rotative 120° Conical non-rotative 126.5°
Onecut 3.17 mm	Conical Flat end cylindrical Round end cylindrical	N/A		Faceted rotative 90° Faceted rotative 110° Conical non-rotative 126.5° Diamond insert non-rotative
Onecut 4.36 mm	Conical Flat end cylindrical 1/4 Rounded cylindrical Round end cylindrical	Helical	Helical (braille)	Faceted rotative 110° Faceted rotative 120° Faceted rotative 126.5° Conical non-rotative 130° Diamond ball
Onecut 6.35 mm	Conical	N/A		Conical non-rotative 130°
Percut 3.00 mm	3/4 Conical	Conical helical Single lip Double lips Triple lips		N/A
Percut 4.00 mm	Conical with double recess	Single lip Double lips Triple lips		
Percut 6.00 mm	Conical with double recess	Conical helical Single lip Double lips Triple lips Four lips		

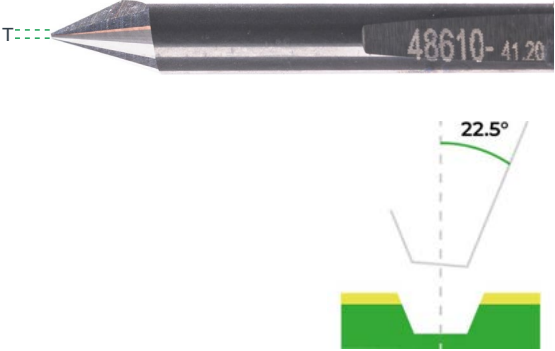
Conical 22.5°

Solid carbide cutting profile for signage and personalization engraving on plastics and non ferrous metals.

T	inch	mm	Ref.
carbide			
	0.010"	0.25	48608
	0.013"	0.32	48609
	0.020"	0.50	48610
	0.030"	0.75	48611
	0.040"	1.00	48612
	0.050"	1.25	48613
	0.060"	1.50	48614
	0.069"	1.75	48615
	0.080"	2.00	48616
	0.100"	2.50	48617
	0.120"	3.00	48618





**Recommended for**  
Phenolic, aluminium, brass

**Suitable for**  
Gravoply™, Metallex™, Gravoglas™, Acrylic



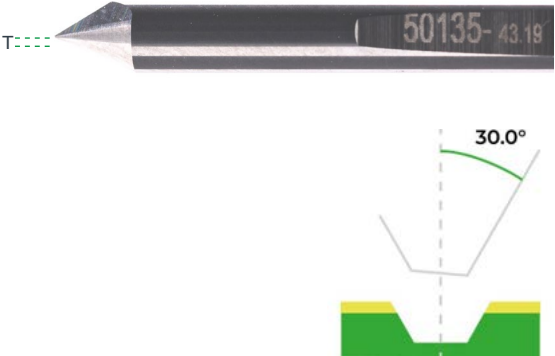
Conical 30.0°

Solid carbide sharpening profile for jewellery personalization applications: gold, silver and nickeled metals. Made of carbide grade medium grain size very hard with excellent wear resistance.

T	inch	mm	Ref.
carbide			
	0.010"	0.25	50135
	0.013"	0.32	50136
	0.020"	0.50	50137
	0.030"	0.75	50138








**Recommended for**  
Gold, silver

**Suitable for**  
Aluminium, brass and nickeled metal



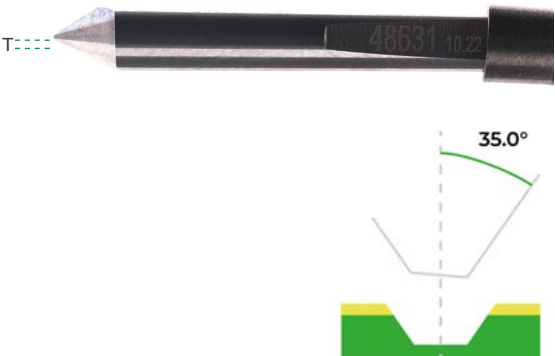
Conical 35.0°

Solid carbide cutting profile for marking & identification on ferrous metals (copper, steel and stainless steel). Cutting angle is ideal to engrave multi and simple lines font characters.

T	inch	mm	Ref.
carbide			
	0.010"	0.25	48629
	0.013"	0.32	48630
	0.020"	0.50	48631
	0.030"	0.75	48632
	0.040"	1.00	48633
	0.050"	1.25	48634
	0.060"	1.50	48635

**Recommended for**  
Steel, stainless steel and copper

**Suitable for**  
Aluminium, brass and nickeled metal



## Conical 15.0°

Sharpening profile designed for plastics & non ferrous metal. Ideal for finishing, bevelling, thin caracteres engraving and jewellery cutting.

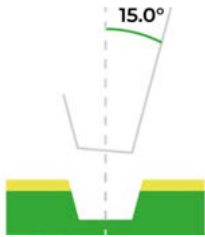
### Recommended for

Aluminium, brass, gold, silver

### Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

T	inch	mm	Ref.
carbide			
—	0.013"	0.32	48713



## Conical 45.0°

Solid carbide sharpening profile designed for plastics & non ferrous metals for finishing and bevelling. Suitable for engraving job using Intaglio.

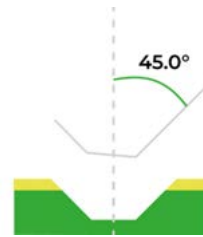
### Recommended for

Aluminium, brass, phenolic

### Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

T	inch	mm	Ref.
carbide			
—	0.013"	0.32	48925



## 1/4 rounded conical

Sharpening profile specifically designed for marking applications into ferrous metals (copper, steel and stainless steel). This cutter is suitable for all characters fonts.

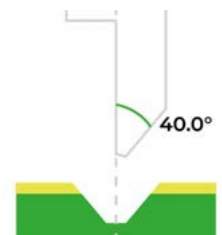
### Recommended for

Copper, steel, stainless steel

### Suitable for

Acrylics, aluminium, brass and nickeled metal

T	inch	mm	Ref.
carbide			
—	0.010"	0.25	48636
—	0.013"	0.32	48637
—	0.020"	0.50	48638
—	0.030"	0.75	48639
—	0.040"	1.00	48640
—	0.050"	1.25	48641
—	0.060"	1.50	48642
—	0.069"	1.75	48643
—	0.080"	2.00	48644



## Conical double cone

Profile designed for identification on hard metals like copper, steel and stainless steel. Profile produces a cut suitable for single line font characters.

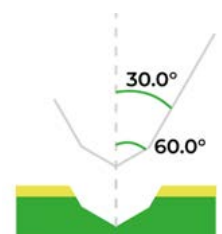
### Recommended for

Copper, cast iron, steel, stainless steel

### Suitable for






Acrylics, aluminium, brass

T	inch	mm	Ref.
carbide			
—	0.010"	0.25	48645
—	0.013"	0.32	46646
—	0.020"	0.50	44647
—	0.030"	0.75	42648
—	0.040"	1.00	40649
—	0.050"	1.25	38650



## Flat end cylindrical

Sharpening profile specifically designed for large characters and logos engraving. Also suitable for cutting with straight edges.

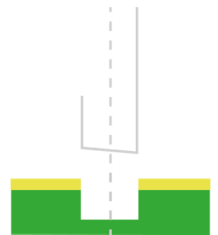
T	inch	mm	Ref.
carbide			
	0.040"	1.00	48619
	0.060"	1.50	48620
	0.080"	2.00	48621
	0.100"	2.50	48622
	0.120"	3.00	48623

## Recommended for

Phenolic, aluminium, brass






## Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic



## Round end cylindrical

Sharpening profile produces a round print, ideal for 3D profile as well as hollow. Mainly used for acrylics reverse engraving, when grooves are colour-filled.

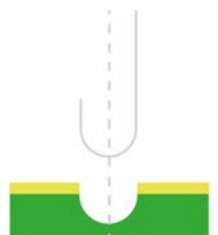
T	inch	mm	Ref.
carbide			
	0.040"	1.00	48624
	0.060"	1.50	48625
	0.080"	2.00	48626
	0.100"	2.50	48627
	0.120"	3.00	48628

## Recommended for

Acrylic









## Suitable for

Aluminium, brass



## Drilling

Solid carbide double lip upward spiral profile designed for drilling plastics and non ferrous metals. Ideal with Gravostyle drilling function into CAM Module.

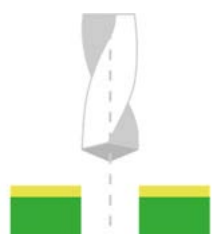
T	inch	mm	Ref.
carbide			
	0.020"	0.50	48661
	0.030"	0.75	48682
	0.040"	1.00	48683
	0.047"	1.20	48684
	0.055"	1.40	48685
	0.060"	1.50	48686
	0.080"	2.00	48687
	0.100"	2.50	48688

## Recommended for

Aluminium, brass or ACM (Aluminium composite), HPL panels (High Pressure Laminate)

## Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic





## Single lip

Solid carbide single lip upward spiral.  
Designed for cutting with straight edges, as well as finishing on aluminium, plastics, composites, laminates and non ferrous metals.

T	inch	mm	Ref.
carbide			
—	0.030"	0.75	48653
—	0.040"	1.00	48654
—	0.080"	2.00	48655
—	0.100"	2.50	48656

### Recommended for

Aluminium, brass or ACM (Aluminium composite),  
HPL panels (High Pressure Laminate)

### Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic



## Double lips

Solid carbide double lips upward spiral.  
Specifically designed for cutting with straight, as well as finishing on aluminium, plastics, composites & laminates.

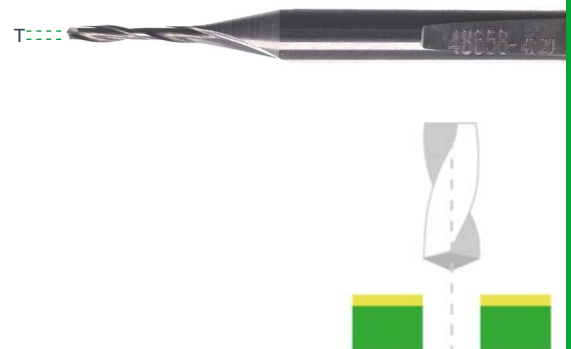
T	inch	mm	Ref.
carbide			
—	0.030"	0.75	48657
—	0.040"	1.00	48658
—	0.080"	2.00	48659
—	0.100"	2.50	48660

### Recommended for

Aluminium, brass or ACM (Aluminium composite),  
HPL panels (High Pressure Laminate)

### Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic



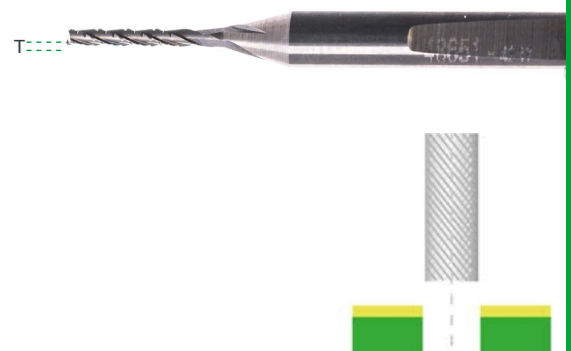
## Multilips

Multilips profile specifically designed for engraving & milling operations into Epoxy resin of Printed Circuit Board (PCB) but also suitable for others resins.

### Recommended for

Phenolic, epoxy

T	inch	mm	Ref.
carbide			
—	0.040"	1.00	48651
—	0.080"	2.00	48652



Conical 22.5°

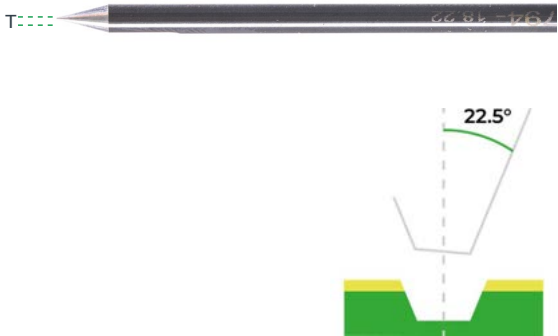
HSS or Solid carbide cutting profile designed for signage and personalisation engraving into plastics and non ferrous metal materials.

T	inch	mm	Ref.
carbide			
—	0.010"	0.25	48793
—	0.013"	0.32	48794
—	0.020"	0.50	48795
—	0.030"	0.75	48796
—	0.040"	1.00	48797
—	0.050"	1.25	48798
—	0.060"	1.50	48799
—	0.080"	2.00	48800
—	0.120"	3.00	48801

T	inch	mm	Ref.
HSS steel			
—	0.004"	0.10	48773
—	0.010"	0.25	48774
—	0.013"	0.32	48775
—	0.020"	0.50	48776
—	0.030"	0.75	48777
—	0.040"	1.00	48778
—	0.050"	1.25	48779
—	0.060"	1.50	48780
—	0.080"	2.00	48781

**Recommended for**  
Gold, silver & phenolic for carbide

**Suitable for**  
Gravoply™, Metallex™, Gravoglas™, Acrylic, aluminium, brass



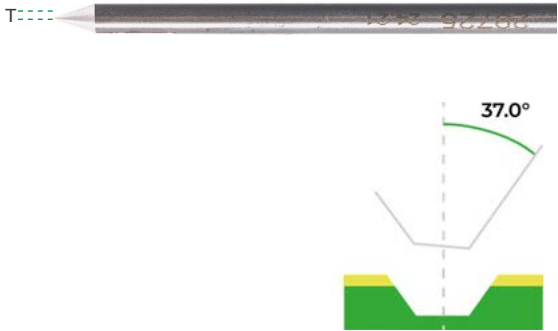
Conical 37.0°

HSS sharpening profile designed for plastics & non ferrous metals. Ideal for finishing, bevelling, cutting and thin character engraving.

T	inch	mm	Ref.
HSS steel			
—	0.013"	0.32	20171

**Recommended for**  
Polypropylen(PP or PPI) toothbruch handle or others grades of floppy plastic

**Suitable for**  
Gravoply™, Metallex™, Gravoglas™, Acrylic



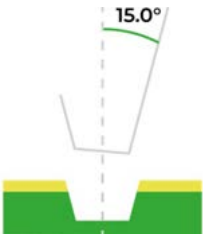
Conical 15.0°

HSS (High Speed Steel) sharpening profile specifically designed for toothbrush plastic handle personalisation. Also suitable for other soft plastic materials.

T	inch	mm	Ref.
HSS steel			
—	0.010"	0.25	48802

**Recommended for**  
Gravoply™, Metallex™, Gravoglas™, Acrylic

**Suitable for**  
Gold, silver, aluminium, brass



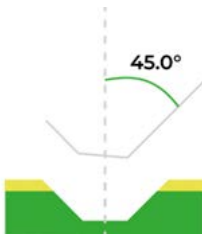
Conical 45.0°

Solid carbide profile designed for plastics & non ferrous metals for finishing and bevelling. Excellent wear resistance.

T	inch	mm	Ref.
carbide			
—	0.010"	0.25	51368





**Recommended for**  
Phenolic, Gravoply™, Metallex™, Gravoglas™, Acrylic

**Suitable for**  
Gold, silver, aluminium, brass



## Flat end cylindrical

HSS or solid carbide cutting profile, suitable for most applications. This tool produces flat bottom and a straight edge cut.

T	inch	mm	Ref.
carbide			
	0.120"	3.00	51372
HSS steel			
	0.040"	1.00	48783
	0.080"	2.00	48785
	0.120"	3.00	48787

### Recommended for

Gold, silver, aluminium, brass, phenolic for carbide





### Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic, gold, silver, aluminium, brass



## Round end cylindrical

Sharpening profile produce a round print, ideal for 3D profile as well as hollow. Mainly used for acrylics reverse engraving, when grooves are colour-filled.

T	inch	mm	Ref.
HSS steel			
	0.040"	1.00	48788
	0.060"	1.50	48789
	0.080"	2.00	48790
	0.120"	3.00	48792

### Recommended for

Gravoglas™, Acrylic



## Ready to grind

Semi-finished cutter exclusively in carbide, to be sharpened. Can be made for technical jobs requiring specific profile.

Tool length	Cutting length	Ref.
105 mm (4.134")	13.00 mm (0.511")	30046
50 mm (1.968")	13.00 mm (0.511")	73011



## Conical 22.5°

HSS or solid carbide cutting profile designed for signage and personalisation engraving into plastics and non ferrous metals.

T	inch	mm	Ref.
carbide			
—	0.004"	0.10	48820
—	0.010"	0.25	48821
—	0.013"	0.32	48822
—	0.020"	0.50	48823
—	0.030"	0.75	48824
—	0.040"	1.00	48825
—	0.050"	1.25	48826
—	0.060"	1.50	48827
—	0.080"	2.00	48828
—	0.120"	3.00	48829

T	inch	mm	Ref.
HSS steel			
—	0.004"	0.10	48808
—	0.010"	0.25	48809
—	0.013"	0.32	48810
—	0.020"	0.50	48811
—	0.030"	0.75	48812
—	0.040"	1.00	48813
—	0.050"	1.25	48814
—	0.060"	1.50	48815
—	0.080"	2.00	48816
—	0.120"	3.00	48818

## Recommended for

Gold, silver, aluminium, brass, phenolic for carbide cutter

## Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic, gold, silver, aluminium, brass



## Conical 15.0°

Sharpening profile designed for plastics & non ferrous metals. Ideal for finishing, bevelling, thin characteres engraving and jewellery cutting.

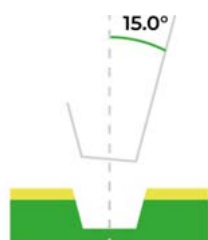
## Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

## Suitable for

Gold, silver, aluminium, brass

T	inch	mm	Ref.
HSS steel			
—	0.010"	0.25	48830



## Conical 45.0°

Solid carbide sharpening profile designed for plastics & non ferrous metals for finishing and bevelling. Suitable for engraving job using Intaglio.

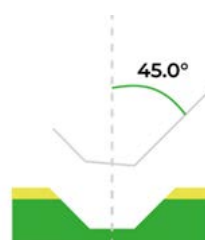
## Recommended for

Gold/silver, aluminium, brass, phenolic

## Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

T	inch	mm	Ref.
carbide			
—	0.010"	0.25	21038



## 1/4 rounded conical

Solid carbide profile designed for marking & identification on ferrous metals (copper, steel and stainless steel). Cutting angle suitable for multi-lines font.

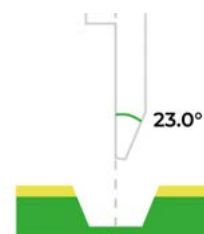
## Recommended for

Copper, stainless steel & steel

## Suitable for

Acrylic, anodized aluminium

T	inch	mm	Ref.
carbide			
—	0.013"	0.32	51373
—	0.020"	0.50	51374
—	0.030"	0.75	51375
—	0.050"	1.25	51376



## Flat end cylindrical

Cutting profile in HSS designed for most applications on plastics and non ferrous metals. This tool will produce flat bottom, also suitable for straight edge cutting.

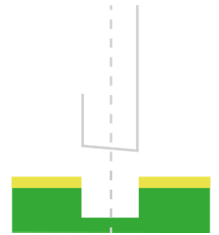
T	inch	mm	Ref.
HSS steel			
—	0.040"	1.00	51355
—	0.060"	1.50	51356
—	0.080"	2.00	51358
—	0.100"	2.50	51359
—	0.120"	3.00	51360
—	0.160"	4.00	48834

### Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

### Suitable for

Gold, silver, aluminium, brass



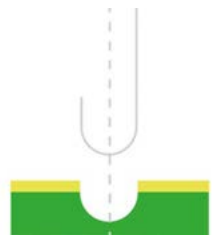
## Round end cylindrical

This cutter profile in HSS (High Speed Steel) creates a round print, ideal for 3D profile as well as hollow. Mainly used for acrylic reverse engraving, when grooves are colour-filled.

T	inch	mm	Ref.
HSS steel			
—	0.040"	1.00	51362
—	0.060"	1.50	51363
—	0.080"	2.00	51364
—	0.100"	2.50	51365
—	0.120"	3.00	51366
—	0.140"	3.50	51367

### Recommended for

Gravoglas™, Acrylic



## Helical

1 lip helical profile specifically designed for regular cutting and milling in ABS, acrylics, aluminium/brass and laminated.

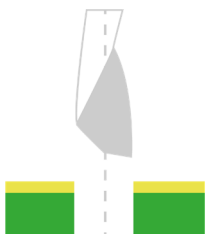
### Recommended for

Aluminium, brass and laminated

### Suitable for

ABS, acrylics

T	inch	mm	Ref.
carbide			
—	0.080"	2.00	80227



## Helical (Braille)

Helical cutters made of solid carbide dedicated to the drilling process of ADA Signage where bead will be inserted.

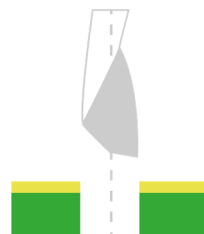
### Recommended for

Acrylics

### Suitable for

ABS, phenolic, anodized aluminium

T	inch	mm	Ref.
carbide			
—	0.061"	1.550	48766
—	0.062"	1.565	48767
—	0.063"	1.580	48768



Ready to grind

Semi-finished cutter exclusively in carbide, needs to be sharpened to match any profile, for technical jobs.

Tool length	Cutting length	Ref.
160 mm (6.299")	13.00 mm (0.511")	28082
50 mm (1.968")	13.00 mm (0.511")	73012



GRINDER

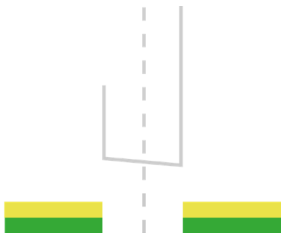
CG30 grinder allows to resharpen your engraving and cutting tools. It achieves a variety of shapes (see below) with an exceptional precision and quality. Collets not included.



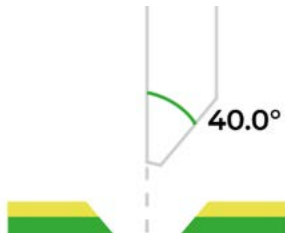
CG30 Grinder



Conical



Flat end cylindrical



1/4 rounded conical

Dimensions (L x W x H)	Noise	Power	Key features	Ref.
360 x 300 x 212 mm (14.17 x 11.81 x 8.35")	≤ 70 dB	90 W	EU plug	22797
			UK plug	22798
			US plug	20906
			Swiss plug	22799
			Japan plug	22800



## Conical 23.0°

Solid carbide cutting profile designed for signage and personalisation engraving into plastics and non ferrous metals.

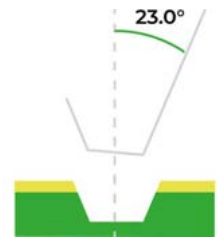
T	inch	mm	Ref.
carbide			
—	0.013"	0.32	48836
—	0.020"	0.50	48837
—	0.030"	0.75	48838
—	0.050"	1.25	48839
—	0.080"	2.00	48840
—	0.125"	3.17	48841
—	0.236"	6.00	48842

**Recommended for**

Phenolic

**Suitable for**

Gravoply™, Metallex™, Gravoglas™, Acrylic, gold, silver, aluminium, brass



## Conical 45.0°

Solid carbide sharpening profile designed for plastics & non ferrous metals for finishing and bevelling. Excellent wear resistance.

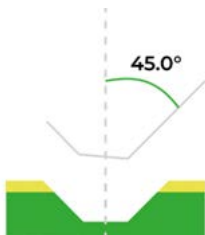
T	inch	mm	Ref.
carbide			
—	0.004"	0.10	48846

**Recommended for**

Phenolic

**Suitable for**

Gravoply™, Metallex™, Gravoglas™, Acrylic, gold, silver, aluminium, brass



## Flat end cylindrical

Solid carbide cutting profile made for the B6 beveller machine.

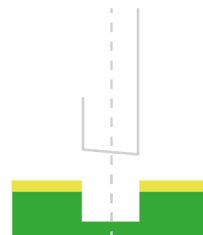
**Recommended for**

Phenolic

**Suitable for**

Gravoply™, Metallex™, Gravoglas™, Acrylic, aluminium, brass

T	inch	mm	Ref.
carbide			
—	0.236"	6.00	48847



## Ready to grind



Semi-finished cutter exclusively in carbide designed for the sharpening system owners who need to engrave technical jobs where precise cotation has to be respected, imposing you to create the perfect tool according to the technical requests.

Tool length	Cutting length	Ref.
50 mm (1.968")	16.00 mm (0.630")	73013



3/4 conical

3/4 conical cutter designed for industrial identification or jewellery customisation. Thanks to its revolutionary technical design, this type of cutter is very effective for fine marking and shows a high level of wear resistance.

T	inch	mm	Tool length	Ref.
carbide				
	0.002"	0.05	38 mm (1.496")	70613
	0.005"	0.15	38 mm (1.496")	70612


**Recommended for**  
Steel (highly allied or not), stainless steel, cast iron and these alloy, copper and these alloy, gold & silver

**Suitable for**  
Aluminium, plastics, graphits



Conical helical

Solid carbide upward spiral developed for deep engraving of soft materials. Standard cutting profile produces a 30° cut into plastics and non ferrous metals.

T	inch	mm	Tool length	Ref.
carbide				
	0.005"	0.15	38 mm (1.260")	23077




**Recommended for**  
Aluminium, brass

**Suitable for**  
Gravoply™, Metallex™, Gravoglas™, Acrylic, phenolic, gold, silver



Single lip (plastics)

Solid carbide single lip upward spiral specifically designed for cutting and milling into plastics and Stratified (HPL) with straight edge finishing.

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.040"	1.00	39 mm (1.535")	4.00 mm (0.160")	48736
	0.080"	2.00	39 mm (1.535")	8.00 mm (0.315")	48737
	0.120"	3.00	39 mm (1.535")	10.00 mm (0.400")	48738

**Recommended for**  
Gravoply™, Metallex™, Gravoglas™, Acrylics

**Suitable for**  
Aluminium, brass or ACM (Aluminium composite), HPL panels (High Pressure Laminate)



## Single lip (metals)




Solid carbide single lip upward spiral specifically designed for cutting and milling metals with straight edge finishing.

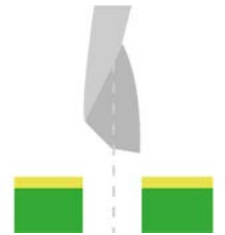
## Recommended for

Aluminium, brass

## Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.040"	1.00	38 mm (1.496")	3.00 mm (0.120")	48739
	0.080"	2.00	38 mm (1.496")	5.00 mm (0.197")	48740
	0.120"	3.00	50 mm (1.968")	8.00 mm (0.315")	48741



## Double lips






Solid carbide double lips upward spiral for cutting and milling into plastics & non ferrous metals with straight edges.

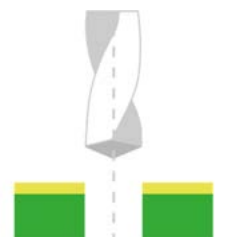
## Recommended for

Aluminium for all references excepted Ref. 80341 which is specialised for brass & copper and their alloys.

## Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.040"	1.00	38 mm (1.496")	2.00 mm (0.080")	48752
	0.060"	1.50	38 mm (1.496")	3.00 mm (0.120")	48753
	0.080"	2.00	38 mm (1.496")	4.00 mm (0.160")	48755
	0.120"	3.00	38 mm (1.496")	6.00 mm (0.236")	48769
	0.077"	1.95	38 mm (1.496")	1.95 mm (0.077")	80341



## Triple lips (alu/brass)


Solid carbide triple lips upward spiral for cutting and milling into aluminium & alloys with straight edges.

## Recommended for

Aluminium, brass or ACM (Aluminium composite), HPL panels (High Pressure Laminate)

## Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.080"	2.00	38 mm (1.496")	4.00 mm (0.160")	70611



## Triple lips (steel)

Solid carbide triple lips upward spiral for cutting and milling into aluminium & alloys with straight edges.

## Recommended for

Steel, stainless steel

## Suitable for

Aluminium, brass

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.080"	2.00	32 mm (1.260")	6.00 mm (0.236")	23080








114

PERCUT 4.00 MM

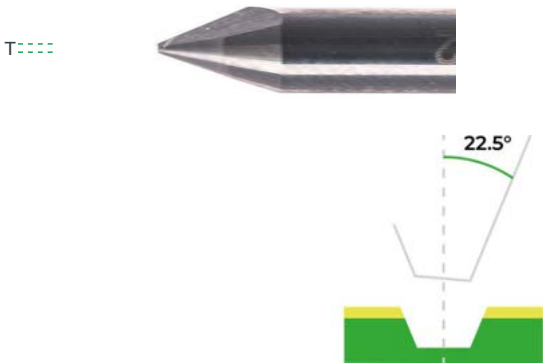
Conical with double recess

Profile designed for most plastics & non ferrous metals. Recommended for signage and personalisation with a cutting angle of 22.5°.

**Recommended for**  
Gravoply™, Metallex™, Gravoglas™, Acrylic, phenolic

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.010"	0.25	50 mm (1.968")	6.00 mm (0.236")	48757
	0.013"	0.32	50 mm (1.968")	6.00 mm (0.236")	48758
	0.020"	0.50	50 mm (1.968")	6.00 mm (0.236")	48759
	0.030"	0.75	50 mm (1.968")	6.00 mm (0.236")	48760
	0.050"	1.25	50 mm (1.968")	6.00 mm (0.236")	48761




**Suitable for**  
Aluminium, brass, gold, silver



Single lip (plastics)

Solid carbide single lip upward spiral for cutting and milling into plastics with straight edges.

**Recommended for**  
Gravoply™, Metallex™, Gravoglas™, Acrylic

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.080"	2.00	38 mm (1.496")	8.00 mm (0.315")	48742
	0.120"	3.00	38 mm (1.496")	10.00 mm (0.400")	48743
	0.160"	4.00	50 mm (1.968")	20.00 mm (0.800")	48744




**Suitable for**  
Aluminium, brass or ACM (Aluminium composite), HPL panels (High Pressure Laminate)



Single lip (metals)

Solid carbide single lip upward spiral or cutting and milling into non ferrous metals with straight edges.

**Recommended for**  
Aluminium, brass


T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.080"	2.00	38 mm (1.496")	3.00 mm (0.120")	48745
	0.120"	3.00	38 mm (1.496")	6.00 mm (0.236")	48746
	0.160"	4.00	50 mm (1.968")	9.00 mm (0.354")	48747

**Suitable for**  
Gravoply™, Metallex™, Gravoglas™, Acrylic



## Double lips (plastics)

Solid carbide double lips upward spiral for cutting and milling into plastics & non ferrous metals with straight edges.

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.160"	4.00	50 mm (1.968")	12.00 mm (0.472")	23072

## Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic and other composites as HPL




## Suitable for

Aluminium, brass and others aluminium derived products (ACM)



## Double lips (metals)

Solid carbide double lips upward spiral for cutting and milling into non ferrous metals with straight edges.

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.080"	2.00	38 mm (1.496")	4.00 mm (0.160")	48770
	0.120"	3.00	38 mm (1.496")	14.00 mm (0.551")	48771
	0.160"	4.00	50 mm (1.968")	16.00 mm (0.630")	23073

## Recommended for

Aluminium, brass and other aluminium derived products (ACM)


## Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic and other composites as HPL



## Triple lips

Solid carbide triple lips upward spiral for cutting and milling into aluminium & brass with straight edges.

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.080"	2.00	25 mm (0.984")	4.00 mm (0.160")	23079

## Recommended for

Aluminium

## Suitable for

Brass



Conical helical

Solid carbide upward spiral for deep engraving of soft materials. Standard cutting profile produces a 30° cut into plastics and non ferrous metals.

T	inch	mm	Tool length	Ref.
carbide				
—	0.005"	0.15	57 mm (2.244")	23091

Recommended for  
Aluminium, brass

Suitable for  
Gravoply™, Metallex™, Gravoglas™, Acrylic, phenolic, gold, silver



Conical with double recess

Profile designed for most plastics & non ferrous metals, signage and personalisation.

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
—	0.013"	0.32	57 mm (2.244")	8.00 mm (0.315")	48762
—	0.020"	0.50	57 mm (2.244")	8.00 mm (0.315")	48763
—	0.050"	1.25	57 mm (2.244")	8.00 mm (0.315")	48765

Recommended for  
Phenolic, Gravoply™, Metallex™, Gravoglas™, Acrylic, aluminium, brass

Suitable for  
Aluminium, brass, gold, silver



Single lip

Solid carbide single lip upward spiral for cutting and milling into plastics & non ferrous metals with straight edges.

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
—	0.080"	2.00	50 mm (1.968")	7.00 mm (0.275")	48748
—	0.120"	3.00	50 mm (1.968")	10.00 mm (0.400")	48749
—	0.160"	4.00	50 mm (1.968")	12.00 mm (0.472")	48750
—	0.236"	6.00	50 mm (1.968")	15.00 mm (0.590")	48751

Recommended for  
Gravoply™, Metallex™, Gravoglas™, Acrylic




Suitable for  
Aluminium, brass or ACM (Aluminium composite), HPL panels (High Pressure Laminate)





## Double lips

Solid carbide double lips upward spiral for cutting and milling into non ferrous metals & plastics with straight edges.

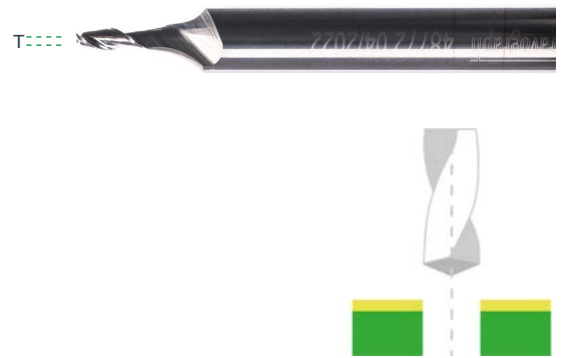
T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.080"	2.00	50 mm (1.968")	6.00 mm (0.236")	48772
	0.120"	3.00	50 mm (1.968")	6.00 mm (0.236")	70610
	0.160"	4.00	50 mm (1.968")	8.00 mm (0.315")	70614

## Recommended for

Aluminium, brass and other aluminium derived products (ACM)




## Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic and other composites as HPL



## Triple lips

Solid carbide triple lips upward spiral for cutting and milling into ferrous metals with straight edges.

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.080"	2.00	50 mm (1.968")	4.00 mm (0.160")	71765
	0.120"	3.00	50 mm (1.968")	6.00 mm (0.236")	71766
	0.160"	4.00	50 mm (1.968")	8.00 mm (0.315")	71761

## Recommended for

Steel, stainless steel and other ferrous metals




## Suitable for

Aluminium, brass



## Four lips

Solid carbide four lips upward spiral for cutting and milling into ferrous metals with straight edge.

T	inch	mm	Tool length	Cutting length	Ref.
carbide					
	0.080"	2.00	50 mm (1.968")	4.00 mm (0.160")	71768
	0.120"	3.00	50 mm (1.968")	8.00 mm (0.315")	71769
	0.160"	4.00	50 mm (1.968")	11.00 mm (0.433")	71770

## Recommended for

Steel, stainless steel



Conical rotative 90°

Onecut 3.17 mm

Mostly used for engraving delicate materials such as platinum, gold, silver as well as glass and more.

Recommended for

Gold, silver, aluminium, brass

Suitable for

Glass, mirror, steel, stainless steel

Rotating diamond:



Designed for Feather Touch use

T	inch	mm	Tool length	Ref.
—	0.004"	0.10	106 mm (4.173")	20149



Faceted rotative 110°

Onecut 3.17 mm

Dedicated to glass and crystal bottles engraving, this 110° faceted rotative diamond cutter is widely used for personalising perfume bottles with paint or wax filling afterwards.

Recommended for

Glass, crystal

Suitable for

Mirror

Rotating diamond:



Designed for Feather Touch use

T	inch	mm	Tool length	Ref.
—	0.005"	0.127	106 mm (4.173")	52163
—	0.010"	0.254	106 mm (4.173")	52183



Conical non-rotative 126.5°

Onecut 3.17 mm

Designed for thin engraving on the most delicate materials such as glass, platinum, gold, silver, brass and more.

Recommended for

Gold, silver

Suitable for

Aluminium, brass, glass, mirror

Rotating diamond:



Designed for Feather Touch use

T	inch	mm	Tool length	Ref.
—	0.004"	0.10	106 mm (4.173")	33954



Diamond insert non-rotative

Onecut 3.17 mm

Diamond insert dedicated to jewelery and gift personalization.

Recommended for

Gold, silver, aluminium, brass

Suitable for

Glass, mirror, steel, stainless steel

Rotating diamond:



NOT designed for Feather Touch use

T	inch	mm	Tool length	Ref.
—	0.004"	0.10	7 mm (0.275")	28187
—	0.004"	0.10	21.5 mm (1.000")	33827



Faceted rotative 110°

Onecut 4.36 mm

Faceted diamond cutters are used for glass engraving to a certain depth and for fine detailed lines. A swivel nose cone is recommended to ensure a constant depth.

Recommended for

Glass, mirror, aluminium, brass

Suitable for

Steel, stainless steel

Rotating diamond:



Designed for Feather Touch use

T	inch	mm	Tool length	Ref.
—	0.010"	0.254	160 mm (6.299")	34122
—	0.015"	0.38	160 mm (6.299")	34123
—	0.030"	0.78	160 mm (6.299")	34124
—	0.010"	0.254	130 mm (5.118")	77659



Faceted rotative 120°

Onecut 4.36 mm

Mostly used on glass and crystal to produce artistic engravings, also suitable to personalise non ferrous metals.

Recommended for

Glass, crystal, mirror

Suitable for

Aluminium, brass, gold, silver

Rotating diamond:



Designed for Feather Touch use

T	inch	mm	Tool length	Ref.
—	0.004"	0.10	160 mm (6.299")	12909
—	0.004"	0.10	130 mm (5.118")	84894



## Faceted rotative 126.5°

Onecut 4.36 mm

Mostly used for ferrous & non ferrous metal engraving. This 126.5° faceted rotative diamond cutter is mainly dedicated to metallic gift item personalisation and metallic parts identification.

## Recommended for

Aluminium, brass, nicked,  
steel, stainless steel

## Suitable for

Glass, mirror

## Rotating diamond:



Designed for  
Feather Touch use

T	inch	mm	Tool length	Ref.
	0.020"	0.50	160 mm (6.299")	34095



## Conical non-rotative 130°

Onecut 4.36 mm

130° conical non rotative diamond cutter is mainly used for gift personalisation and mechanical part identification in aluminium, brass, nicked metals, steel and stainless steel.

## Recommended for

Aluminium, brass, gold, silver

## Suitable for

Glass, crystal, steel, stainless  
steel

## Rotating diamond:



Designed for  
Feather Touch use

T	inch	mm	Tool length	Ref.
	0.020"	0.50	160 mm (6.299")	34094
	0.020"	0.50	160 mm (6.299")	84975



## Diamond ball

Onecut 4.36 mm

Diamond round burr dedicated to engraving and carving of granite, stone and glass. This typical cutter needs to operate under permanent water or oil based lubrication.

## Recommended for

Granite

## Suitable for

Glass, mirror, stone

## Rotating diamond:



Designed for  
Feather Touch use

T	inch	mm	Tool length	Ref.
	0.063"	1.60	160 mm (6.299")	20932
	0.063"	1.60	160 mm (6.299")	20933

## Conical non-rotative 130°

Onecut 6.35 mm

Mainly used in gift personalisation and mechanical part identification on precious metals.

## Recommended for

Precious, ferrous, non ferrous  
metals


## Suitable for

Glass, crystal, mirror  
metals

## Rotating diamond:



NOT designed for  
Feather Touch use

T	inch	mm	Tool length	Ref.
	0.004"	0.10	178 mm (7.000")	34261



## Faceted rotative 120°

Twincut

120° faceted diamond insert of the Twincut family, dedicated to engraving a wide variety of ferrous and non-ferrous metals, glass & more. Twincut diamond insert removes material when it rotates.

## Recommended for


Aluminium, brass, nicked  
metals

## Suitable for

Steel, stainless steel, glass

## Rotating diamond:



T	inch	mm	Tool length	Ref.
	0.004"	0.10	15 mm (0.590")	23060



## Conical non-rotative 126.5°

Twincut

126.5° conical diamond insert of the Twincut family, dedicated to engraving a wide variety of ferrous and non-ferrous metals, glass and crystal, mirrors and more. Diamond dragging works by repelling material when engraver rotation is off.

## Recommended for

Gold/silver

## Suitable for

Aluminium, brass, steel,  
stainless steel

## Rotating diamond:



T	inch	mm	Tool length	Ref.
	0.004"	0.10	15 mm (0.590")	23061



## Stylus for test prior to engraving

### ASSEMBLED STYLUS BIT

Unit - 1 unit

Ref. 21679

Intended for a final check before engraving, the assembled stylus bit replaces the cutter and fits into the top-loading spindle. This stylus can easily be refilled when empty.



### CROSS STYLUS REFILL

Unit - 1 unit

Ref. 12374

Cross stylus refill is delivered as spare part for assembled stylus bit. Easy to change thanks to the removable cap and spring. Take out the worn refill and proceed to the replacement.



## Twincut starter kits

### TOOL HOLDER

Tool holder is a central part of the Twincut concept called "non-active part".

It holds the engraving insert, the "active part".

This tool holder has been coated to avoid scratches and rust.



	Packaging type	Ref.
M20 V3/M40 L = 120 mm	Box - 1 unit	69729
IS series, L = 150 mm		22987

### EJECTOR

Use the ejector to remove the cutter from the tool holder.



	Packaging type	Ref.
M20 V3/M40	Unit - 1 unit	69727
IS series		69724



### KNOB KEY

Unit - 1 unit

Ref. 10016

The cutter knob key is an indispensable tool for installing and disassembling the cutter from any rotary engraver. This tool allows you to unscrew the cutter's knob screw that holds the cutter in the spindle.



### CUTTER KNOB

Unit - 1 unit

Ref. 12335

The cutter knob connects the cutter shank to the spindle so that it becomes a single entity. This assembly allows the tool to be fixed at the end of the Z-reference's setting and to maintain it during the engraving process.



### STEEL BLOCK

Unit - 1 unit

Ref. 13798

The steel block serves as an anvil, used in the assembly process of the Twincut insert. Just strike the base of the cutter shaft when inserting the cutter to secure it.



### BRUSH

Unit - 1 unit

Ref. 11791

Use the brush to sweep away chips or dust that may still be present at the end of the engraving process.

## M20 V3, M40 & IS ENGRAVING STARTER KITS

There are 2 Twincut starter kits dedicated to our rotary engravers: M range (M20 v3 & M40) or IS range (IS200, IS400, IS6000, IS7000 & IS8000). These kits brings you the accessories you need to use our Twincut concept and to 2 inserts to start engraving immediately.



Watch our  
videos!

	Packaging type	Ref.
M20 v3, M40 Twincut starter kit	Box - 1 unit	69723
IS Twincut starter kit		69722

# Discover the Twincut tools with our starter kit

## What's in the kit ?



1 tool holder



1 tool ejector



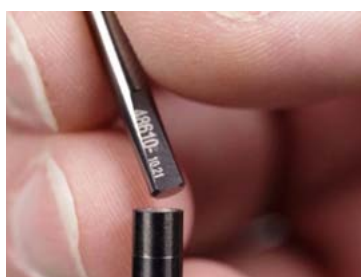
1 Allen key



1 steel block

## Moving towards a first engraving: step by step

#1



Place the insert in the tool holder.

#2



Gently tap on the steel block.

#3



Install your tool in the machine.

#4



Adjust your z-axis and tighten with the Allen knob key

#5



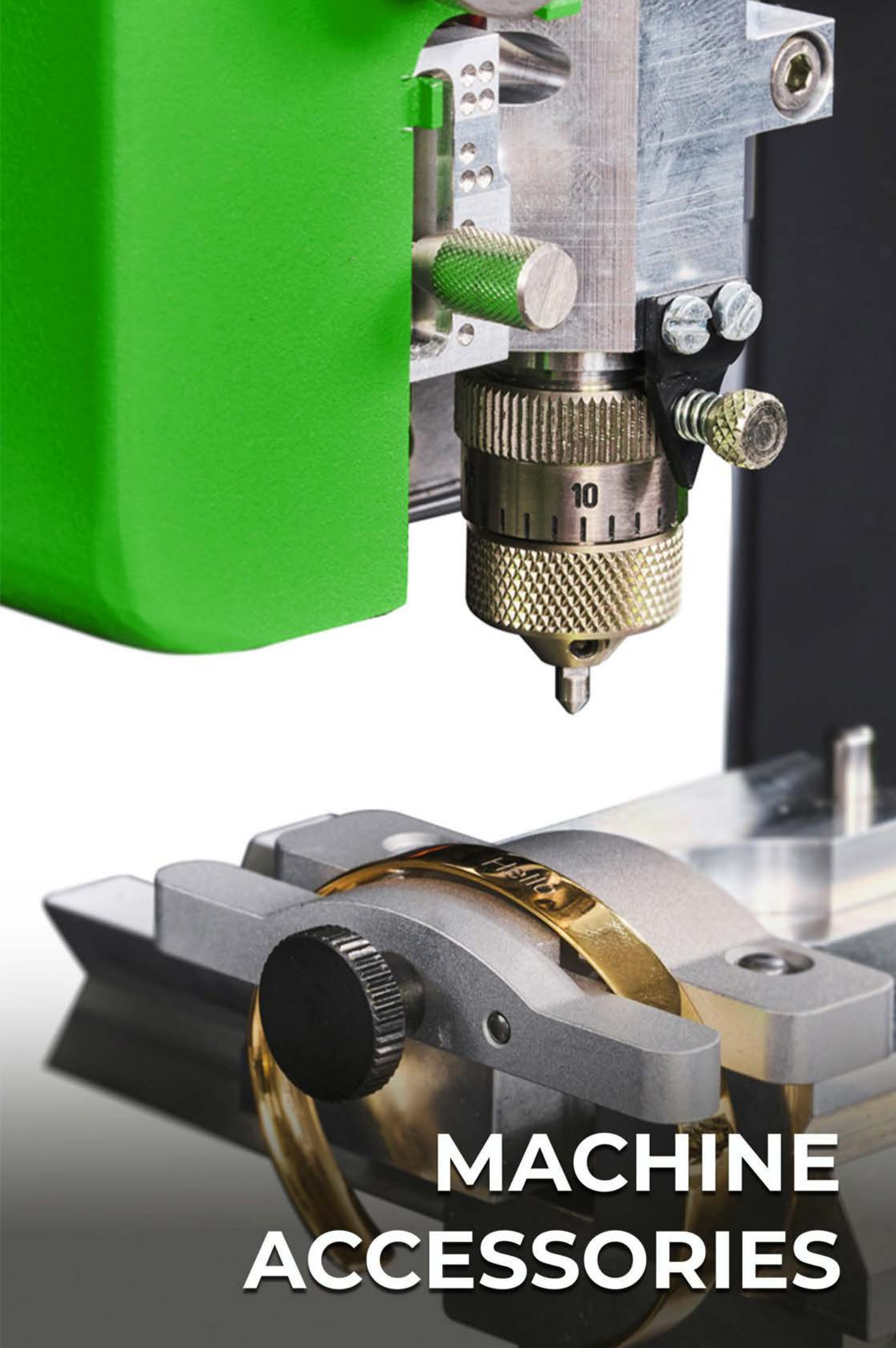
Use the ejector to push the insert out of the tool holder.

Keep the box to store your tools!

See our video







# MACHINE ACCESSORIES

# CYLINDRICAL ATTACHMENT JIGS

## Jigs for jewel rotary device



### STANDARD RING JIGS

Ref. 12500

Machine compatibility:  
M20 Jewel, M20 v3 Jewel,  
WeLase™

Pack of 1

Inside use.  
Designed to fix a ring or a  
wedding ring topped with a  
diamond.



### PREMIUM RING JIGS

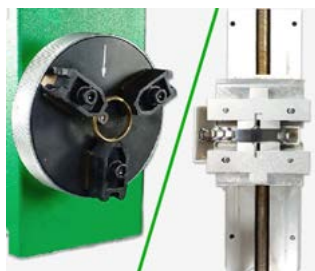
Ref. 49951

Machine compatibility:  
M20 Jewel, M20 v3 Jewel,  
WeLase™

Pack of 3

Inside and outside use.  
Designed for a wide range  
of round rings, perfect for  
wedding rings.

## Dedicated kits



### JEWEL KIT

Ref. 81993, 81993

Machine compatibility: M20  
v3 Pen

Includes a chuck for  
rings up to 27 mm (1.06")  
diameter and a jewel jig  
(Ref. 28192).



### PEN KIT

Ref. 81377

Machine compatibility: M20  
v3 Jewel

Includes pinches for pens  
and a tailstock.

To engrave any pen of any  
diameter.



### BOTTLE KIT

Ref. 46674

Machine compatibility: M40,  
M40 DV

Diameter: 38 - 110 mm (1.5 -  
4.33")

To engrave bottles and  
cups up to 110 mm (4.33")  
diameter.



### LARGE CYLINDER CHUCK

Ref. 23527

Machine compatibility:  
IS400 Volume

Diameter: 110 - 350 mm  
(4.33" - 13.78")

Designed to engrave large  
cylindrical items up to 350  
mm (13.78") diameter.



### OUTSIDE RING KIT

Easily and perfectly allows a deep engraving outside of the ring.

Key features	Material	Machine compatibility	Ref.
Includes a ring holder	plastic	M20 v3 Pen	49514
Includes a ring holder and a counterpin	plastic	M20 v3 Jewel	81994



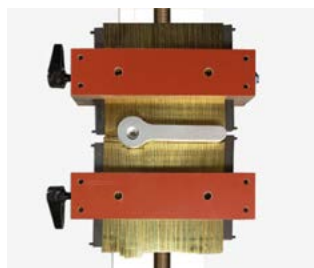
### CUP KIT

Engrave cylindrical items up to 80 mm (3.15") diameter i.e. metal cup, drinking glass etc.

Key features	Material	Machine compatibility	Ref.
Includes a chuck and rubber cones.	rubber	M20 v3 Pen	81978
Includes a counterpin and rubber cones	rubber	M20 v3 Jewel	81977

## FLAT JIGS

### Easy clamping



#### UNIVERSAL JIGS

Ref. 20196

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Sliding pins & lateral stop.

Multiform vice: the most versatile jig to hold any shape.



#### GRAVOFOIL™ JIGS

Ref. 22868

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Metallic plate with 2 magnets.

Engrave very flexible materials like Gravofoil™ or Flexilase™.



#### ROUGH CELERON JIGS

Ref. 10179

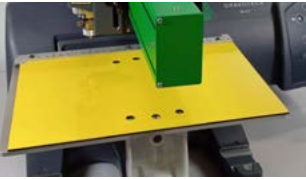
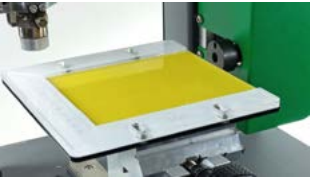
Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Shape your own jigs.

Jigs to be machined to the desired shape.

GRAVOGRIP™ TABLES

Double-sided, flexible and naturally adhesive material: no need for clamping, tape nor vacuum table.  
A time saver tool for engraving and cutting jobs on plastic or metallic materials.



Gravogrip™ table M20      Gravogrip™ table M40

	Key features	Machine compatibility	Ref.
Gravogrip™ table M20	mm	M20 v3, M20	70997
Gravogrip™ table M40		M40, M40 DV	45697
	inch		72182
Gravogrip™ table IS200	mm	IS200	71116
	inch		73401

Signage - Electrical



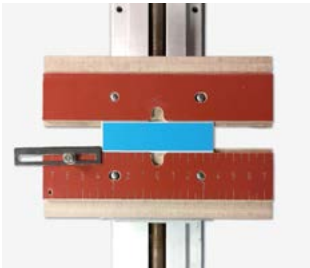
MEDIUM PLASTIC JIGS

Ref. 27215

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Length: 150 mm (5.9")

For badges, labels or electrical strips.



MEDIUM CELERON JIGS

Ref. 10165

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Length: 150 mm (5.9") with very precise graduation.

For delicate flat items: labels, medals.



ELECTRICAL JIGS

Ref. 21131

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Length: 240 mm (9.5")

For electrical applications: cable identification, electrical strips. Can hold any long flat items.



EXTRA LARGE ALUMINIUM JIGS

Ref. 20191

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Length: 310 mm (12.2")

For large plates (any material). Ideal for professional plate engraving (300 x 200 mm - 11.8 x 7.9").





## SMALL PLASTIC JIGS

Ref. 48091

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Length: 90 mm (3.54")

For small object and jewellery personalisation. Small footprint around the vice.



## STANDARD JEWELLERY JIGS

Ref. 28192

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

The protection tray for chains is available in option (Ref. 48074).

Versatile jewellery vice: pendants, curved bangles, adult and baby chain bracelets.



## PREMIUM JEWELLERY JIGS

Ref. 22870

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Automatically center the product in X and Y.

The ideal jewellery vice: the best fit with the most versatility. Perfect positioning for tiny jewels like babies chain bracelets.



## CHAIN PENDANTS JIGS

Ref. 77320

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Holes to pass the chain through.

Dedicated to pendants with chains, also works with chain bracelets.



## WATCHES JIGS

Ref. 10182

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

For round and rectangular objects, engrave watches and medals without the risk of scratching.



## RIGID BRACELET JIGS

Ref. 77961

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

To install on the right or left of the vice.

For rigid bracelets that cannot be held in standard jigs.



## SIGNET RING JIGS

Ref. 20194

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Includes rubber protection strips.

Easily engrave signet rings without the risk of scratching.



## CUTTING JIGS

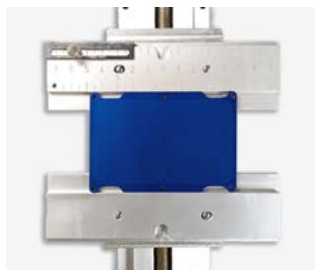
Ref. 84897

Machine compatibility: M20 v3, M20, M20 Jewel, M20 v3 Jewel, M20 Pen, M20 v3 Pen, WeLase™

Includes 4 holding flanges and 3 martyr plates. Max. plate size: 80 x 120 mm (3.15 x 4.72"), thickness: 8 mm (0.31").

For cutting thin metal plates.

## Gift and small items



### MEDIUM ALUMINIUM JIGS

Ref. 20189

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

l = 150 mm (5.9")

Flat metallic parts and small metallic items. Hold plates firmly.



### GLASS FRAME JIGS

Ref. 20190

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Screws to set 2 different widths along the jigs.

Designed especially for eyeglass frame. Adjustment for flared temples.



### PEN JIGS

Ref. 10169

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

For pen bodies or tubular items.



### CLIP PEN JIGS

Ref. 20842

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Specific feature for the pen clips.

Engraving of clip and pen body.



### COSMETIC JIGS

Ref. 81152

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Designed to easily clamp perfume bottles and cosmetics.



### SWISS ARMY KNIFE JIGS

Ref. 28067

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Designed to engrave the sides of Swiss army knives.



# Funerary



## FUNERARY JIGS

Ref. 47697

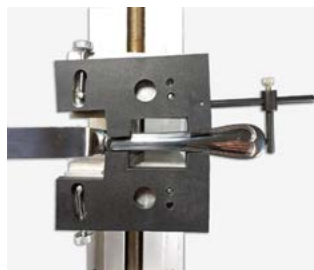
Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

I = 164 mm (6.5")

Dedicated to funeral applications:

- Side 1: coffin plate
- Side 2: funerary inters

# Tableware



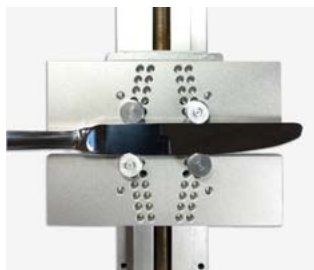
## SILVERWARE JIGS

Ref. 20129

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Includes stops to adjust length and width.

Dedicated to silverware.



## TABLEWARE JIGS

Ref. 22370

Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Includes 4 relocatable pins.

Suitable for various tableware item shapes and sizes: plates, silverware, etc.



## PLATTERS JIGS

Ref. 20192




Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

Includes 4 relocatable pins.

For platter or any large flat item.





# REGULATING NOSES

## STANDARD NOSES SMALL FONT



		Key features	Max. truncation	Recommended max. tool cone	Machine compatibility	Ref.
Nose 0.7 mm		For very small fonts	0.25 mm (0.010")	22.5°	IM3, M20 v3, M20, M40, IS200, IS400, ISx000	20130
Nose 1.5 mm		Recommended for Metallex™	0.32 mm (0.013")			20131
Nose 2.3 mm		General use	0.75 mm (0.030")			20132

## STANDARD NOSES LARGE FONT



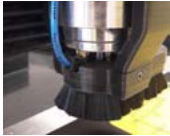
		Key features	Max. truncation	Recommended max. tool cone	Machine compatibility	Ref.
Nose 2.5 mm		For bevelling and medium fonts	0.75 mm (0.030")	45° - 60°	IM3, M20 v3, M20, M40, IS200, IS400, ISx000	20936
Nose 4.7 mm		For fonts up to 60 mm (2.36"). Compact for intaglio engraving	3.00 mm (0.120")	All tools		12215
Nose 7.0 mm		For large fonts	3.75 mm (0.015")			20937
Nose large diameter		For very large fonts or large flat tint on plastic	3.75 mm (0.015")			20960





		Key features	Max. truncation	Recommended max. tool cone	Machine compatibility	Ref.
Vacuum nose 1.5 mm		For small fonts	0.25-0.75 mm (0.010 - 0.030")	22.5°	IM3, M20 v3, M20, M40, IS200, IS400, ISx000	21674
Vacuum nose 3.3 mm			0.25-2.5 mm (0.010 - 0.100")			21672
Vacuum nose 8 mm		Maximum chip suction. For small fonts	0.25-3 mm (0.010 - 0.118")	All tools		21673
Extraction noses kit		Supplied with suction hose and 3 noses: 21674/21672/21673	N/A	N/A		23657

## CURVED ITEM NOSES



		Key features	Max. truncation	Recommended max. tool cone	Machine compatibility	Ref.
Vacuum swivel nose 2.5 mm		To follow shapes on glass bottle engraving. Rotating or non-rotating diamond.	0.75 mm (0.030")	22.5°	IM3, M20 v3, M20, M40, IS200, IS400, ISx000	22464
Vacuum swivel nose 5 mm			1.50 mm (0.059")			13058

## COLLET SPINDLE NOSES




		Key features	Max. truncation	Recommended max. tool cone	Machine compatibility	Ref.
Swivel vacuum nose 2.50 mm		To perfectly follow the profile of the part on hard materials. Small font.	0.75 mm (0.030")	All tools	IS400, ISx000	64189
Swivel vacuum nose 5.00 mm		To perfectly follow the profile of the part on hard materials. Medium font.	1.50 mm (0.059")			64188
HF 750 W spindle vacuum nose		Connect directly to the IS chip collector to vacuum chips when using the HF 750 W spindle.	N/A		ISx000	79596

		Key features	Max. truncation	Recommended max. tool cone	Machine compatibility	Ref.
Depth teflon nose 3.0 mm		Avoid matting on metallic plates and tags. Small fonts.	1.50 mm (0.059")	22.5°	IM3, M20 v3, M20, M40, IS200, IS400, ISx000	20133
Vacuum swivel teflon nose 3.5 mm		Softer than polished steel nose: less scratch. Small fonts.	0.50-0.75 mm (0.020-0.030")			22481
Vacuum swivel teflon nose 5 mm		Softer than polished steel nose: less scratch. Medium fonts.	1.25 mm (0.050")	35.0°		42165
Long vacuum teflon nose 12 mm		Engrave in grooves up to 11 mm (0.43").	1.75 mm (0.069")	45.0°		28061

## SPECIFIC NOSES

		Key features	Recommended max. tool cone	Machine compatibility	Ref.
Diamond nose		Integrated diamond. Picture engraving by points and scribing.	N/A	IM3, M20 v3, M20, M40, IS200, IS400, ISx000	22884
Electronic sensor nose		Automatize machine Z settings for each character to get the desired depth. Small and medium fonts only. Replace the manual Z setting system.	All tools	IS200	65413
				IS400, ISx000	51310

## FEATHER TOUCH

		Key features	Recommended max. tool cone	Machine compatibility	Ref.
Feather Touch 4.36 - M range		Mainly used for glass. Very soft pressure applied by the diamond on the part.	Diamond use mostly	M20 v3, M40	81950
Feather Touch 4.36 - IS range		Avoid nose scratches.		IS200, IS400, ISx000	78465
Feather Touch 3.17		Mainly used for glass. Very soft pressure applied by the diamond on the part.		M20	81898

# SPINDLES

## TOP LOAD SPINDLES

Tool clamped from the top, only one diameter. Possibility to use depth nose. IM3, M20 v3, M40, IS200, IS400 and ISx000 IQ 90W are delivered with a top load spindle in standard.



IM3 spindle



M series spindle



IS series spindle

	Tool diameter	Machine compatibility	Ref.
IM3	3.17 mm (0.12")	IM3	21690
M range	4.36 mm (0.17")	M20 v3, M40	80895
IS200	4.36 mm (0.17")	IS200	22915
Other IS range	4.36 mm (0.17")	IS400, ISx000	22220

## COLLET SPINDLE

Hold the tool tightly to prevent play and tool breakage. For hard materials or precise machining. ISx000 IQ 200W, ISx000 XP 200W and ISx000 XP milling are delivered with a collet spindle in standard.

Machine compatibility: IS400, ISx000

Ref. 14763



## HIGH FREQUENCY SPINDLE - 150 W

Can be installed on IS400. Max speed of 60 000 rpm. Precise 2D, 2,5D and 3D machining. Recommended for aluminium or plastic front panels.

	Machine compatibility	Key features	Ref.
HF spindle - 150 W	IS400, ISx000	Europe	47474
		UK	47475
		Switzerland	47476
		US / Japan	47477
		China	76289



## HIGH FREQUENCY SPINDLE - 750 W

Highest torque in the range. Includes a set of clamps (type ER11) to use different tool sizes. Precise 2D, 2,5D and 3D machining. Repetitive cutting and engraving work in plastic or soft materials. Repetitive marking in hard materials such as steel and stainless steel.

	Machine compatibility	Ref.
HF spindle IQ - 750 W	ISx000 IQ 90W, ISx000 IQ 200W	80051
HF spindle XP - 750 W	ISx000 XP 200W	80052



## HIGH FREQUENCY SPINDLE - 1 kW

Max rotation = 90000 rpm (can be used for very thin tools <1.0 mm). Only spindle compatible with the automatic tool changer. ISx000 XP milling is delivered with a HF spindle 1kW in standard.

	Machine compatibility	Key features	Ref.
HF spindle - 1 kW	ISx000	Europe	50707
		UK	50780
		Switzerland	50781
		US	51732
		Japan	51733
		China	76290







# AUXILIARIES

# Chip collectors

## COMPACT CHIP COLLECTOR

Connects directly to the spindle nose. A must-have accessory to keep the machine and workplace clean and ensure a neat engraving result.

Weight	Dimensions (L x W x H)	Max. static pressure	Max. air flow	Machine compatibility	Key features	Ref.
1.3 kg (2.87 lb)	155 x 100 x 180 mm (6 x 4 x 7")	2.2 kPa	20 m³/h	M20, M40, IS200	EU plug	47642
					UK plug	47643
					Swiss plug	47644
					US Plug	47645
					China plug	76107



## LARGE CHIP COLLECTOR

Floor stand unit.  
Connects directly to the spindle nose. A must-have accessory to keep the machine and workplace clean and ensure a neat engraving result.

Weight	Dimensions (L x W x H)	Max. static pressure	Max. air flow	Machine compatibility	Key features	Ref.
23 kg (50.71 lb)	290 x 290 x 540 mm (11.4 x 11.4 x 21")	7.3 kPa	25 m³/h	IS200, IS400, ISx000	EU plug	49262
					UK plug	49263
					Swiss plug	49264
					US Plug	49265
					Japan plug	64939
					China plug	76108



## Saws

We offer three saws with various capabilities on the material size and thickness to cut. Our saws can cut most materials (i.e. plastic, acrylic, brass, aluminum, etc). Chip extractor is included in the machine.

### VA10 SAW

Dimensions: 830 x 550 x 250 mm (33 x 22 x 10")

Max. cutting length	Max. plastics thickness	Max. metals thickness	Max. Gravostrat™ thickness	Key features	Ref.
620 mm (24")	6.3 mm (0.248")	4 mm (1/6")	6.3 mm (0.248")	EU plug	21770
				US plug	21771
				China plug	76111
				Japan plug	80888



VA10/11

### VA11 SAW

Dimensions: 910 x 550 x 250 mm (36 x 22 x 10")

Max. cutting length	Max. plastics thickness	Max. metals thickness	Max. Gravostrat™ thickness	Key features	Ref.
665 mm (26")	7 mm (0.276")	5 mm (0.20")	7 mm (0.276")	EU plug	21764
				US plug	21765
				China plug	76112
				Japan plug	80889



VA10/11

### VA21-15 SAW



Dimensions: 1280 x 551 x 250 mm (51 x 22 x 10")

Max. cutting length	Max. plastics thickness	Max. metals thickness	Max. Gravostrat™ thickness	Key features	Ref.
1030 mm (40")	7 mm (0.276")	5 mm (0.20")	7 mm (0.276")	EU plug	21768
				US plug	21769
				China plug	76114
				Japan plug	80891



VA21-15

### SAW BLADES

		Key features	Ref.
24 teeth blade		Fast cutting of plastic and aluminium	21773
36 teeth blade		Precise clean cutting of aluminium and plastic	21796

GUILLOTINES

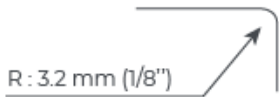
Guillotines are an alternative to saws, their benefits are cutting precision and quality, speed of operation, noise and possibility to cut very small pieces.

However, they can be used only with certain types of thin plastic and metals.

	Dimensions (L x W x H)	Max. plastics thickness	Max. metals thickness	Ref.
CSP	530 x 380 x 240 mm (21 x 15 x 9.5")	2.4 mm (3/32")	N/A	20198
CSM	530 x 380 x 240 mm (21 x 15 x 9.5")	N/A	1 mm (0.040")	20199
CSC	240 x 150 x 120 mm (9.5 x 6 x 4.5")	3 mm (1/8")	0.8 mm (1/32")	23588



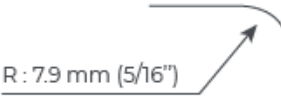
Ref. 14500



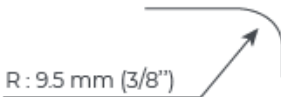
Ref. 14501



Ref. 14502



Ref. 14508



VA2 BEVELLER

Bevelled (or rounded) edges make plates and badges look smart, providing the finishing touch customers are looking for.

The VA2 beveller includes a chip extractor and can handle materials up to 4.5 mm (0.16") thick. Bevelling angle is 45°.

Max. cutting length	Max. plastics thickness	Max. metals thickness	Key features	Ref.
N/A	4.5 mm (0.16")	4.5 mm (0.16")	EU plug	19927
			US plug	19928
			China plug	76109



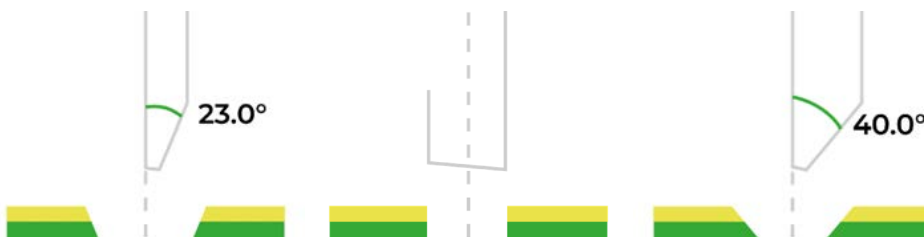
# OTHER ACCESSORIES

## GRINDER

CG30 grinder allows to sharpen your engraving and cutting tools. It achieves a variety of shapes (see below) with an exceptional precision and quality. Collets not included.



CG30 Grinder



Conical

Flat end cylindrical

1/4 rounded conical

Dimensions (L x W x H)	Noise	Power	Key features	Ref.
360 x 300 x 212 mm (14.17 x 11.81 x 8.35")	≤ 70 dB	90 W	EU plug	22797
			UK plug	22798
			US plug	20906
			Swiss plug	22799
			Japan plug	22800

## GRINDING WHEEL

The right grinding wheel depends on the cutter raw material to sharpen.

For carbide cutters, use diamond wheel and choose between the two particle sizes available:

- D16 (16 microns) for mirror finish.
- D46 (46 microns) for polish finish.

For steel cutters, use Corundum wheel.

	Ref.
Diamond grinding wheel D16 for carbide cutters	22806
Diamond grinding wheel D46 for carbide cutters	20125
Corundum grinding wheel for steel cutters	20126



## COLLET FOR CG30

Collet is a precision item used to accurately center the cutter to grind, it ensures a perfect sharpening. CG30 grinder accepts 3 collet diameters: 3.17 mm (1/8"), 4.6 mm (11/64") and 6.35 mm (1/4").

	Ref.
CG30 collet - Ø = 3.17 mm (1/8")	20890
CG30 collet - Ø = 4.36 mm (11/64")	20891
CG30 collet - Ø = 6.35 mm (1/4")	20892



# Gravotech service offer

Gravotech is dedicated to provide you with the best warranties, services contracts and local support.



## COMMISSIONING

### AT YOUR DOORSTEP

Set up and fine-tuning of your equipment by a Gravotech technician.



## TRAINING

### TAILORED SESSIONS

Standard or customized training sessions, at your place or online.



## SERVICING

### EXPERTISE

Machine fleet audit and maintenance recommendations.

### PREVENTIVE SERVICES

Necessary care to maximize your machine lifetime.



## TECHNICAL SUPPORT

### PHONE ASSISTANCE

Gravotech experts dedicated to support and guide you.

### REMOTE ASSISTANCE

Video or screen sharing sessions available on demand.

Your machine accessories can also be covered, contact us for more information.

## Our services







# MACHINES & SOFTWARE



IS200

Small signage and identification engraving machine



IS400 / IS400 VOLUME




One of a kind metal engraving machine



ISx000

The large format CNC engraving machine

## CNC TABLES

Application scope			
Technology	Rotary, diamond dragging	Rotary, diamond dragging	Rotary, diamond dragging
Marking area max. (L x H)	225 x 80 mm (9 x 3 in)	305 x 210 mm (12 x 8 in)	<b>IS6000:</b> 610 x 410 mm (24 x 16 in) <b>IS7000:</b> 610 x 815 mm (24 x 32 in) <b>IS8000:</b> 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)	<b>IS400:</b> 105 mm (4 in) <b>IS400 Volume:</b> 400 mm (15.75 in)	80 mm (3 in)



IM3

The iconic pantograph by Gravotech



M10 JEWEL

Compact ring and bracelet engraving machine



M20





Custom engraving for all kind of purposes, from jewellery and perfume to small industrial signage



M40/M40GIFT

Multi-purpose rotary engraving machine for signage and gifts

## ENGRAVING STATION

Application scope				
Technology	Rotary, diamond dragging	Diamond dragging	Rotary, diamond dragging	Rotary, diamond dragging
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)
Spindle power	-	-	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 (21.7 x 20 x 12.6 in)


## APPLICATION SCOPE :

 Identification

 Personalisation

 Signage

 Creative

 Manufacturing


**LS100**

CO2 laser engraver for signage, creative cutting, and personalisation

**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

Application scope	●●●	●●●	●●●	●●●●
Laser source	CO2	CO2, Fiber	CO2, Fiber, Edge	CO2
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
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)
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)

**WELASE™**

Small laser engraving station

**LW2**

Fully automated laser marking station

**IMPACT**

Benchtop dot peen marking station

Application scope	●●	●●	Application scope	●
Laser source	Fiber, Hybrid, Green, CO2	Fiber, Hybrid, Green	Technology	Dot peen, Pneumatic or Electromagnetic
Use rate	Adapted for small to medium batches	Fully automatic Adapted for high use rate	Software	Integrated traceability software with colour touchscreen
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	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)
Max object Weight	3 kg (6.6 lbs)	25 kg (55 lbs)	Z axis type	Manual or Motorized & programmable

**ES MINI****ES10****ES30****LE120HP/  
LE140HP****LE150HP****LNI900****LE190HP**

Max. air flow (m³/h)	190-220	200	360	400	400	240	700
Static pressure (kPa)	3	4	9	10	10	22	10
Active carbon (L)	-	13	30	20	40	42	40
Compatible	WeLase™	With full range		LS100	LS100Ex	LS900	LS1000XP

## RANGE OF INTEGRATED EXHAUST DEVICES

## INTEGRABLE DOT PEEN & SCRIBING



**XF510p**

The fastest pneumatic dot peen marking machine on the market



**XF510m**

The precise and consistent electromagnetic dot peen marking machine



**XF510r**

The quiet metal marking machine



**XF530**

Deep and indelible dot peen marking

Application scope				
Technology	Dot peen Pneumatic	Dot peen Electromagnetic	Diamond dragging	Dot peen Pneumatic or Electromagnetic
Main advantage	Speed	2D codes	Quiet	Deep marking
Marking area max. (L x H)	<b>Cp:</b> 50 x 20 mm (2 x 0.8 in), <b>Sp:</b> 100 x 80 mm (4 x 3.15 in), <b>Dp:</b> 200 x 80 mm (7.9 x 3.15 in)	<b>Cm:</b> 50 x 20 mm (2 x 0.8 in), <b>Sm:</b> 100 x 80 mm (4 x 3.15 in), <b>Dm:</b> 200 x 80 mm (7.9 x 3.15 in)	<b>Cr:</b> 40 x 50 mm (1.6 x 2 in), <b>Sr:</b> 80 x 50 mm (3.15 x 2 in), <b>Dr:</b> 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







**XCOM**

## CONTROL UNIT

### 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.

INTEGRABLE LASER MARKERS				
	FIBER	HYBRID	GREEN	CO2
	Integrated laser marking system for metal and plastic parts	The best compromise between versatility, high quality and high speed to meet all your marking needs	Integrated laser marking system to mark highly reflective materials and sensitive plastic materials	High-speed laser engraver: the best to mark organic materials and coated surfaces
Application scope	●●	●●	●●	●●
Wavelength (nm)	1 064	1 064	532	10 600
Power (W)	Fiber Premium: 20 - 30 - 50 Fiber Standard: 20 - 30 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.			

## APPLICATION SCOPE :

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



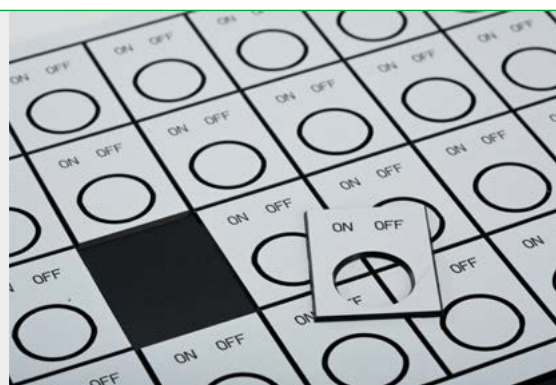
## Our applications





# GRAVOSTYLE

## LEVELS



### DISCOVERY

### DISCOVERY MAX

Laser + Rotary

Laser + Rotary

#### Go hybrid. Drive laser & rotary technology.

#### Productivity package

#### Features

- Matrix and variable lists
- Import of vector files (DXF, EPS, HPGL...) and images (BMP, JPG, PNG and TIF ..)
- Plate Point & Shoot: makes it possible to define the engraving area directly on the machine
- PDF import & files export (PDF, DXF, EPS, HPGL...)
- Alignment & transformation tools
- Geometric shapes
- Laser driving capabilities with presets
- Extensive choice of symbols
- Calibration wizard: one-step process to establish optimal laser settings
- On-screen preview

- Scanning and vectorisation
- Point mode and bitmap editor
- 2D recess by colour
- Retail font pack (incl. over 100 fonts)
- Scripting (macro function capabilities)

#### Options

- braille production
- Font editor
- Personalisation pack:
- Handwriting stroked engraving fonts
- Photo processing capabilities
- Additional stroked engraving fonts

- Text on a curve

#### Applications

- Plate serialisation
- Badges, nameplates & doorplates
- Photo touch-ups
- Jewellery & gifts
- Variable list of names
- Funeral plates
- Rubber stamps
- Pet tags & key rings
- Legend plates

- Logo scanning and editing
- Trophy plates
- Plates with text and logos
- Signage with text and logos

#### Features

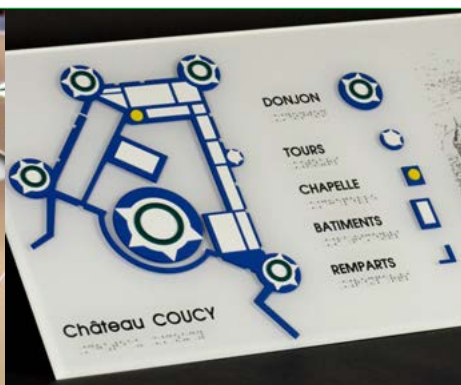
- Computip feature to recommend the most efficient tools
- Support for Automatic Plate Feeding applications
- Support for cylindrical engraving
- Customisation of working environment

- Post-it function to take notes while you engrave
- Hot keys
- Favourites toolbar
- Object freezing

## IN ALL LEVELS



# THE UNIQUE SOFTWARE FOR LASER AND ROTARY ENGRAVING MACHINES



INDUSTRY	GRAPHIC	3D
Laser + Rotary	Laser + Rotary	Laser + Rotary
<b>Power, precision &amp; productivity</b>	<b>Unleash creativity</b>	<b>Take your engraving to a new dimension</b>
<ul style="list-style-type: none"> <li>• Dials and scales</li> <li>• Scripting (macro function capabilities)</li> <li>• Long Plate management</li> <li>• Measurement tools</li> <li>• Batch import</li> <li>• External data import (CSV, TXT, Excel®, SQL, ODBC...)</li> <li>• Shape duplication tools</li> </ul>	<ul style="list-style-type: none"> <li>• Nesting (material optimisation)</li> <li>• CAM module (advanced tool management)</li> <li>• Powerful on-screen simulation and rendering</li> <li>• Advanced braille toolpath management</li> <li>• Print &amp; Cut module</li> <li>• LED positioning function</li> <li>• Photo lasering optimisation function</li> <li>• Moulds and dies</li> <li>• Shading (3D effect)</li> </ul>	<ul style="list-style-type: none"> <li>• Surface creation and manipulation tools</li> <li>• Styl'Art 3D modeling module</li> <li>• 3D texturing</li> <li>• Sculpture tool</li> <li>• 3D CAM advanced toolpaths</li> <li>• 3D visualisation tools</li> <li>• Includes all 2.5D functions</li> </ul>
<ul style="list-style-type: none"> <li>• Barcodes, Datamatrix, QR Code® and UID - unique identification with variables management</li> </ul>	<ul style="list-style-type: none"> <li>• 2.5D toolpath for jewellery/metal stamps and intaglio for signage</li> <li>• Laser toolpath management for deep marking</li> </ul>	
<ul style="list-style-type: none"> <li>• Rating plates</li> <li>• Control panels</li> <li>• Part identification &amp; traceability</li> <li>• Circuit boards</li> <li>• Linear and 2D barcodes</li> <li>• Paper and cardboard cutouts with laser</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced photo lasering</li> <li>• Model making</li> <li>• Marquetry</li> <li>• Hot stamping</li> <li>• Award design and production</li> <li>• Printed signage cutout</li> <li>• Signs conception</li> </ul>	<ul style="list-style-type: none"> <li>• 3D signage</li> <li>• Displays</li> <li>• Embossing/debossing dies</li> <li>• Food molds</li> <li>• Furniture decoration</li> <li>• Models &amp; prototypes</li> <li>• Award &amp; recognition</li> <li>• Commemorative</li> </ul>

Learn more :



# CO2 laser parameters for: LS100, LS100EX (40 W)



This document provides a base of engraving parameters to be used on Gravotech laserable materials. They are indicative values that can be subject to modification, that are recommended by professional engravers and have been tested and verified for the LS100Ex & LS100 40 W.

## LASER MATERIALS

	Power	Speed	Passes	Focus	Refocus	Air	Type	Dpi	Thickness	Comments
Gravoply™ Laser	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	80%	30%	1	-	Before	yes	Cutting	500	0.8 mm (.030")	
	100%	28%	1	-	Before	yes	Cutting	500	1.3 mm (.050")	
Gravoply™ Ultra	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	70%	40%	1	-	Before	yes	Cutting	500	0.5 mm (.020")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6 mm (1/16")	
	100%	10%	1	-	Before	yes	Cutting	500	-	
Gravoply™ 2	10%	100%	1	-	Before	no	Vector	500	-	
	50%	100%	1	-	Before	no	Raster	500	-	
Gravoglas™ 1	80%	40%	1	-	Before	no	Vector	500	-	Subsurface engraving
	80%	40%	1	3.0mm (1/8")	Before	no	Raster	500	-	Subsurface engraving
	100%	18%	1	-	Before	yes	Cutting	500	1.5 mm (1/16")	Keep the plastic film on
	100%	10%	1	-	Before	yes	Cutting	500	3.0 mm (1/8")	Keep the plastic film on
	100%	5%	1	-	Before	yes	Cutting	500	5.0 mm (.20")	Keep the plastic film on
Acrylic	30%	100%	1	-	Before	no	Vector	500	-	
	60%	100%	1	-	Before	no	Raster	500	-	
	100%	8%	1	-	Before	yes	Cutting	500	3.0 mm (1/8")	
	100%	5%	1	-	Before	yes	Cutting	500	6.0 mm (.20")	
	100%	1%	1	-	Before	yes	Cutting	500	10 mm (.40")	
Gravotac™ Exterior	50%	20%	1	-	Before	yes	Cutting	500	0.8 mm (.030")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6 mm (1/16")	
Flexilase™	10%	100%	1	-	Before	no	Vector	500	-	
	30%	100%	1	-	Before	no	Raster	500	-	Gravogrip advised
	100%	5%	1	-	Before	yes	Cutting	500	0.25 mm (.01")	
Stickalase™	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	Gravogrip advised
	20%	30%	1	-	Before	yes	Cutting	500	0.09 mm (.004")	
Gravostrat™	50%	60%	1	-	Before	no	Vector	500	-	
	100%	60%	1	-	Before	no	Raster	500	-	
Rubbalase™	100%	20%	1	-1.5mm (-1/16")	Before	no	Vector	500	-	
	100%	20%	1	-1.5mm (-1/16")	Before	yes	Raster	500	-	
	100%	5%	1		Before	yes	Cutting	500	2.2 mm (.087")	
Laser Wood	40%	70%	1	-2.0	Before	no	Raster	400	-	
	100%	40%	1	-	Before	yes	Cutting	400	0.4 mm (1/64")	
	100%	35%	1	-	Before	yes	Cutting	400	1.0 mm (3/64")	
	100%	12%	1	-	Before	yes	Cutting	400	2.5 mm (3/32")	
	100%	5%	1	-	Before	yes	Cutting	400	4.5 mm (11/64")	



The purpose of this document is to help each engraver get an idea as to how to engrave on Gravotech laserable materials. The parameters are sorted by product range. Every material can have up to 3 different types of engraving process:

- Vector, for lightweight linear tracing
- Raster, for heavy marking
- Cutting

Some materials may not be engraved with a certain type of engraving process: if the specific type is not in the grid of the material, then it's most likely that it we do not recommend this engraving method on the indicated material.

## METALLICS MATERIALS

	Power	Speed	Passes	Focus	Refocus	Air	Type	Dpi	Thickness	Comments
Gravolase™ Metallics	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	70%	40%	1	-	Before	yes	Cutting	500	0.5 mm (.020")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6 mm (1/16")	
Metallex™	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	All Metallex™ material surfaces
Gravoxal™	30%	100%	1	-	Before	no	Vector	500	-	All Gravoxal™ material surfaces
	50%	100%	1	-	Before	no	Raster	500	-	All Gravoxal™ material surfaces
AlumaMark®	30%	50%	1	-	Before	no	Vector	500	-	
	30%	80%	1	-	Before	no	Raster	500	-	
DuraBlack®	20%	80%	1	-	Before	no	Raster	500	-	

## TECH TIPS

Floating pin table cutting - When using a floating pin table, place an aluminium plate under the strips to avoid laser reflection to prevent engraving under the material.

### Gravogrip™ :

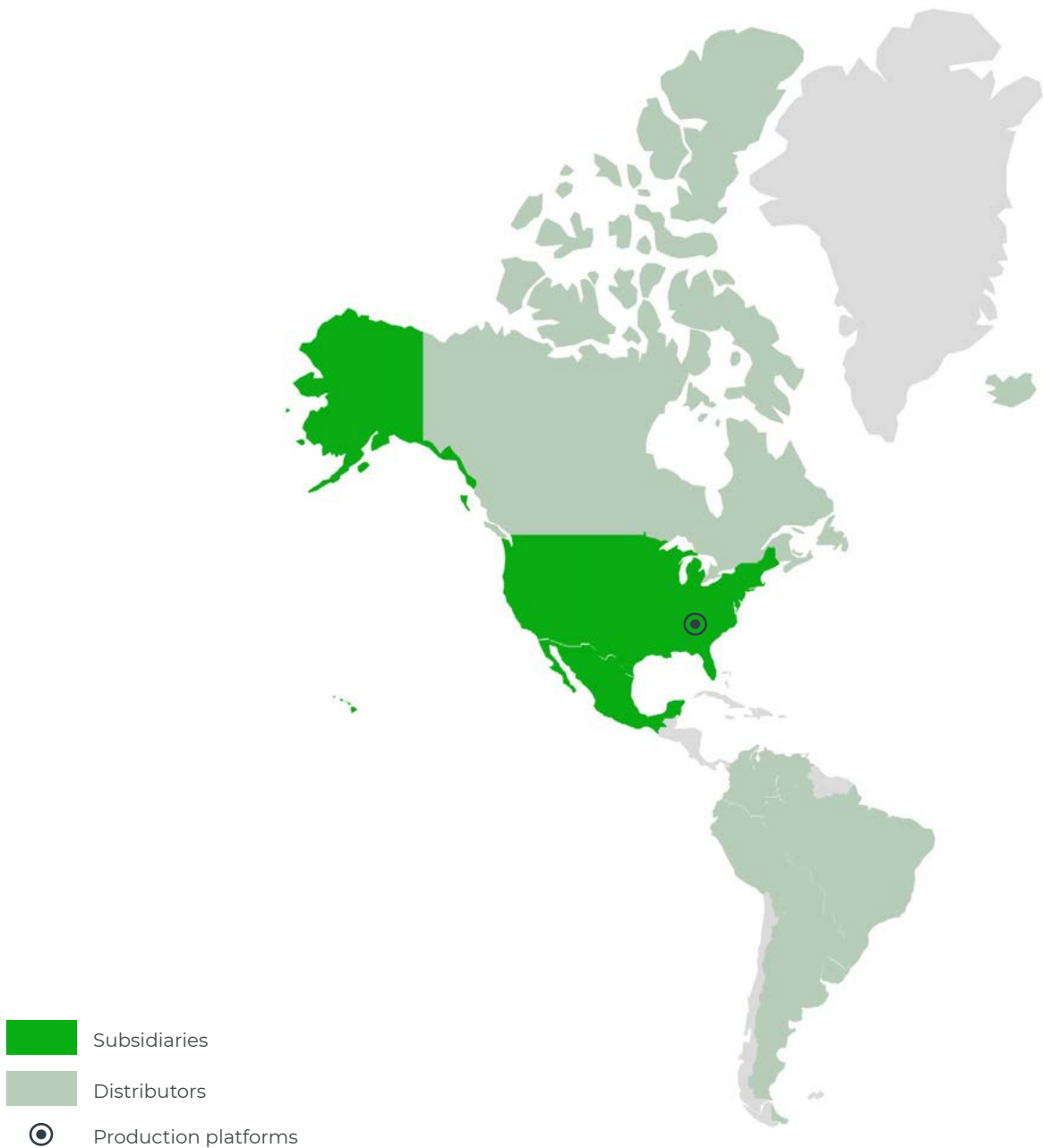
- Use Gravogrip™ when engraving on thin materials as they can have uneven surfaces.
- Avoid using too much power when engraving to prevent damage to the Gravogrip™ plate.

*Note : in case of unexpected behavior during the engraving process, please refer to the machine's User Manual for troubleshooting.*



# Global reach

A global leader in the engraving and permanent marking industry, Gravotech’s many subsidiaries and distributors/agents around the world offer a complete and worldwide engraving solution to their customers, coupled with unparalleled customer service and support.



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Bolivia  
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Canada  
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Colombia  
Croatia  
Czech Republic

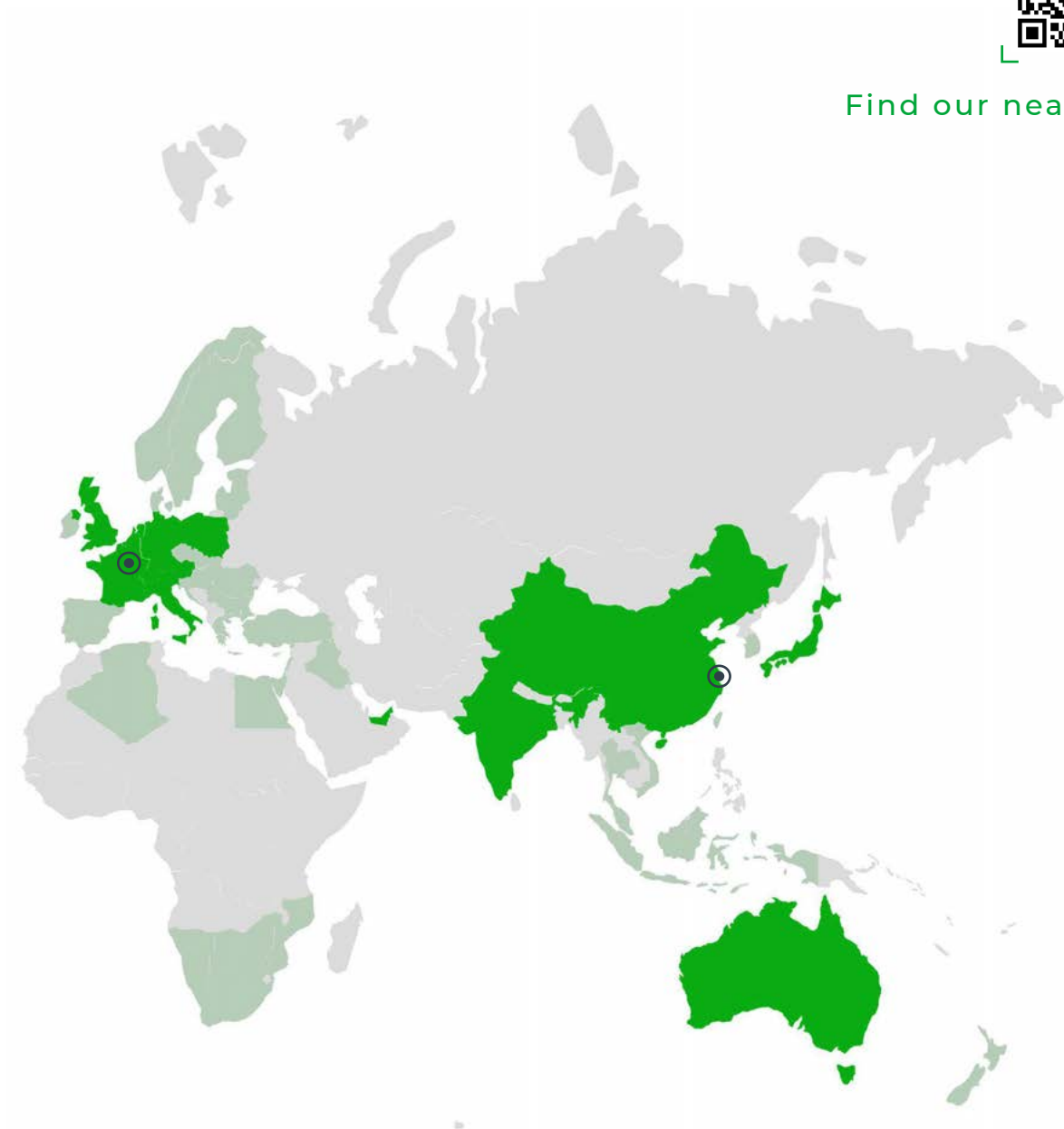
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**GRAVOTECH**  
E X P R E S S I O N   O F   T H I N G S

## Gravotech Group (Corporate Headquarters)

466 Rue des Mercières  
Z.I Perica  
69140 Rillieux-la-Pape  
France

+33.4.78.55.85.50  
[contact@gravotech.com](mailto:contact@gravotech.com)

## CONTACT

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[www.gravotech.com](http://www.gravotech.com)