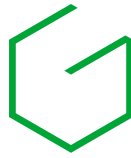# GRAVOTECH
EXPRESSION OF THINGS

ENGRAVING SOURCE BOOK

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

V6.2

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!

TABLE OF CONTENTS

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 constrasted 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
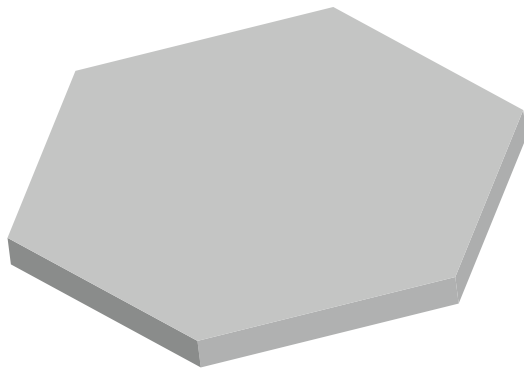
1 layer, 1 colour

2-PLY
The most standard design
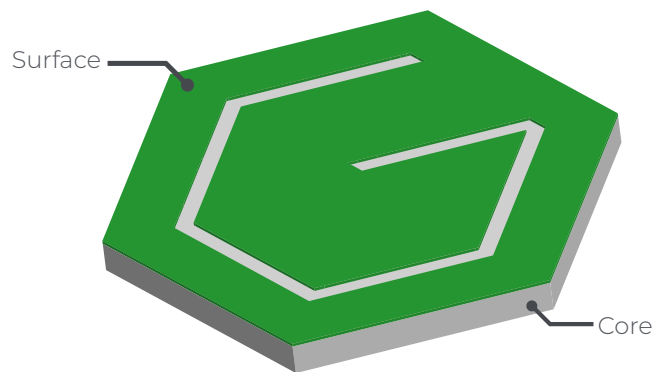
Surface

Core

2 layers, 2 colours

3-PLY
An exception dedicated to safety signage

Surface

Intermediate layer
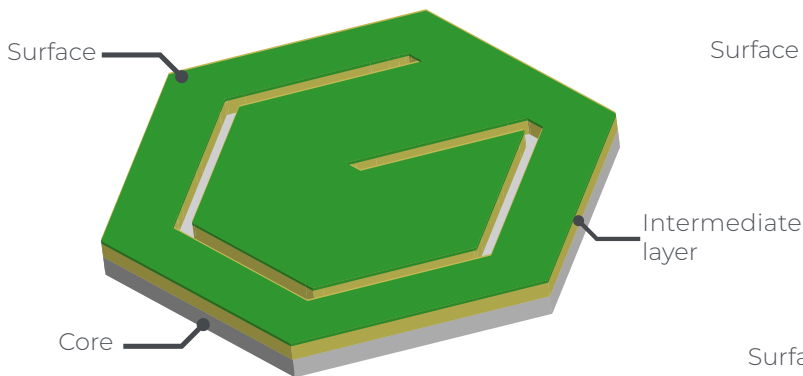
Core

3 layers, 3 colours

DOUBLE-SIDED
Can be engraved on both sides

Surface
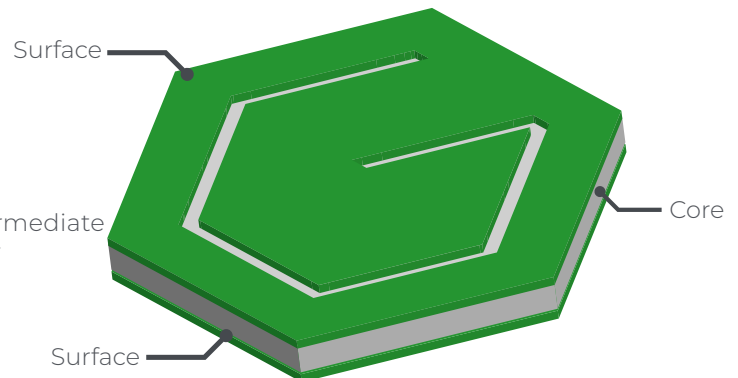
Core

Surface

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

Stickalase™ Flexilase™ Gravoply™ Laser Gravoglas™ 2-Plex™ Surface

THIN
Flexible

THICK
Rigid & resistant

SURFACE THICKNESS

Gravoply™ Laser Gravolase™ Metallics Gravoply™ 1 Gravoglas™ 2-Plex™ Surface

STANDARD
Detailed engraving
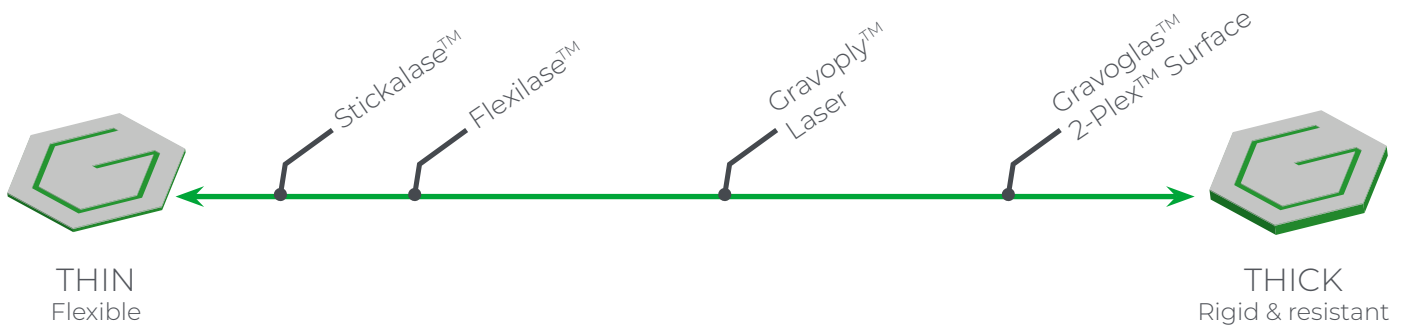
THICK
Deep & resistant engraving
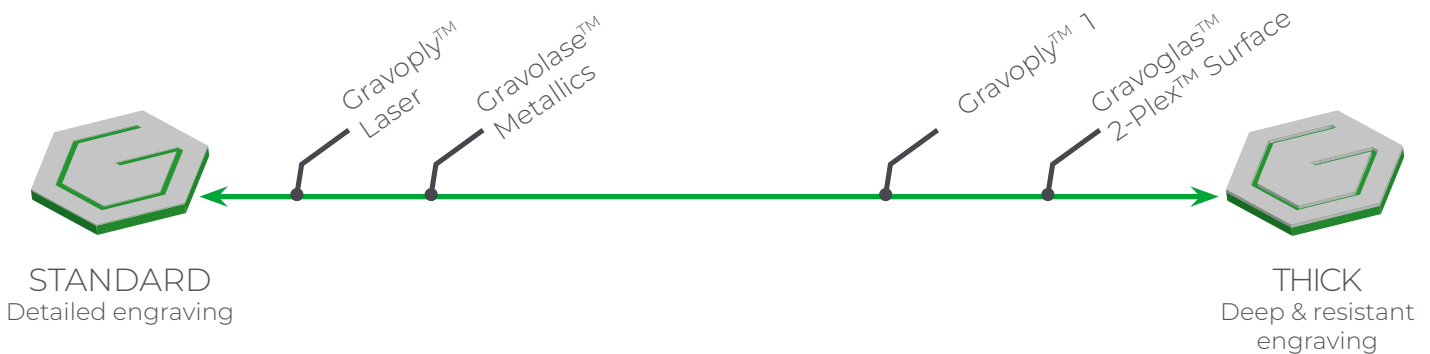
CORE COMPOSITION

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.

CUT-TO-SIZE

CONCAVE CORNERS
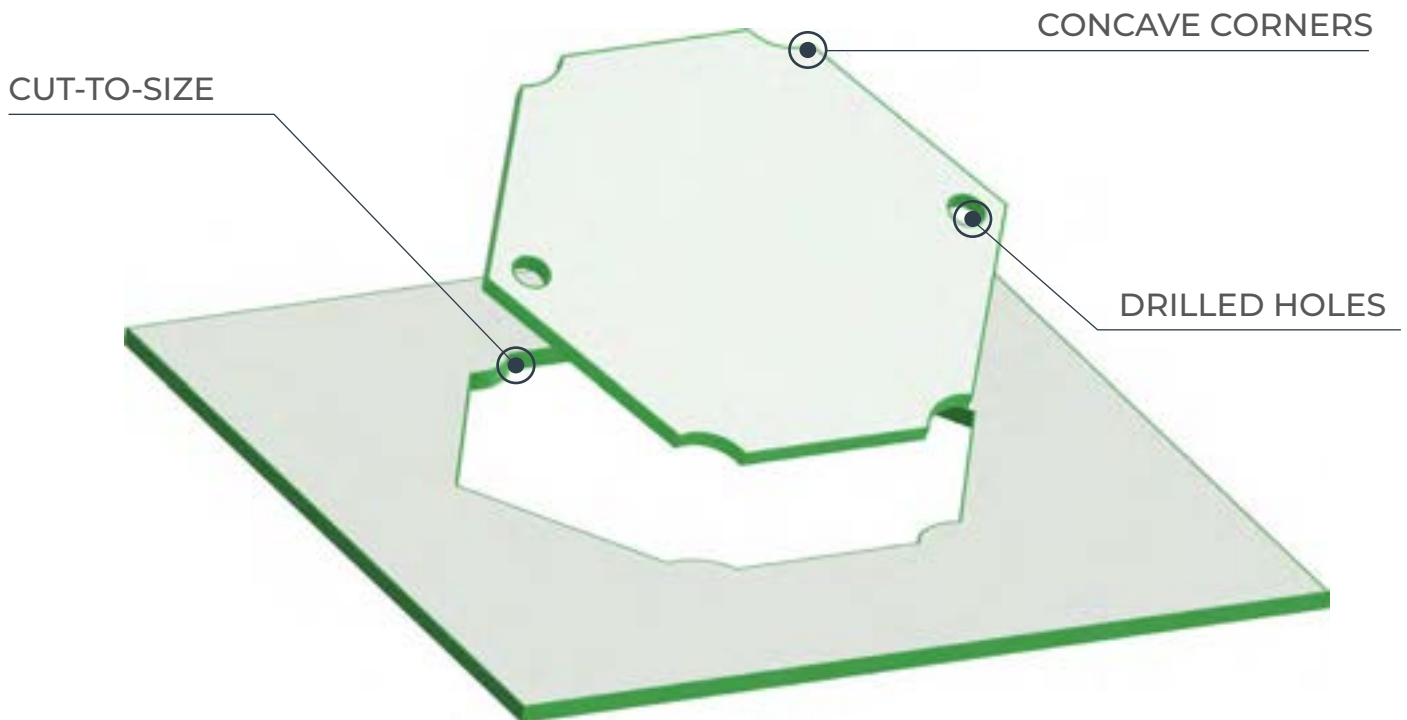
DRILLED HOLES

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.
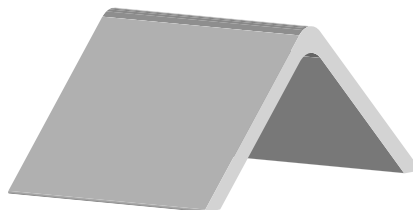
BENDING

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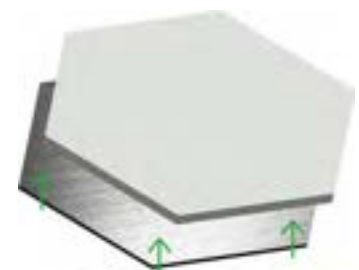
BACKING

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
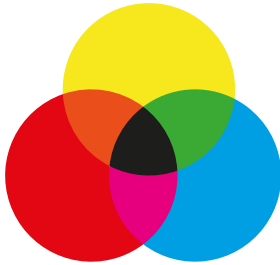
Gravotech provides any colours combination!

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
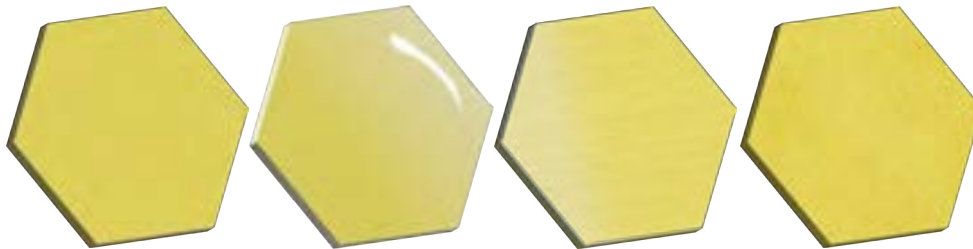
| Matte | Glossy | Satin | Textured |

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

DOUBLE-SIDED AND 3-PLY MATERIAL
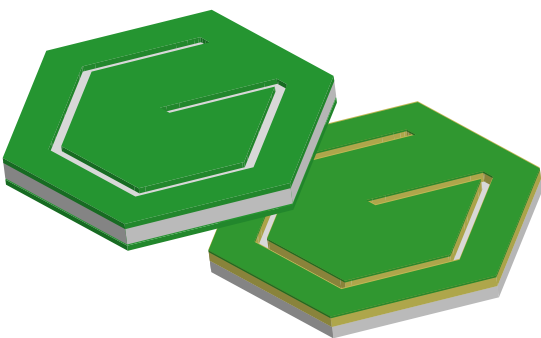
We can also produce double-sided material if your application requires it. Different colours on both sides possible.

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**

ONLINE MATERIALS SELECTION GUIDE

Find the right material for your application!

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**   Gravoply™ 1: **Ref. 86064**
Gravolase™ Metallics: **Ref. 86497**   Gravoply™ 2: **Ref. 86065**
Flexilase™: **Ref. 86495**   Metallex™: **Ref. 86066**
Acrylic: **Ref. 86493**   Gravoglas 2-plex Surface: **Ref. 86067**
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.
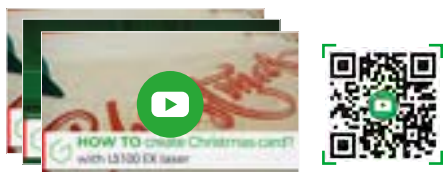
GRAVOGLAS™ 1

GRAVOPLY™ ULTRA
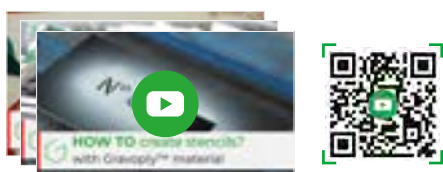
GRAVOPLY™ LASER
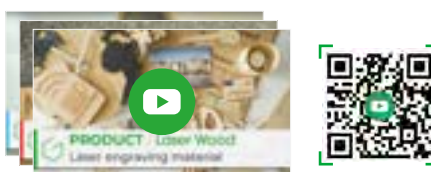
LASER WOOD
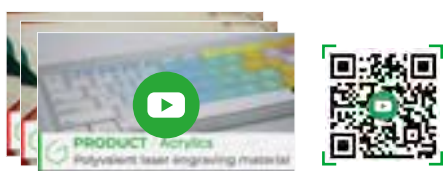
ACRYLIC
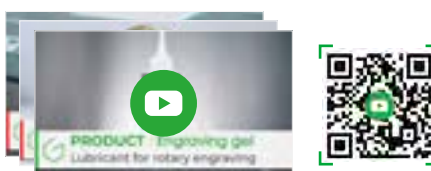
CONSUMABLES

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 !
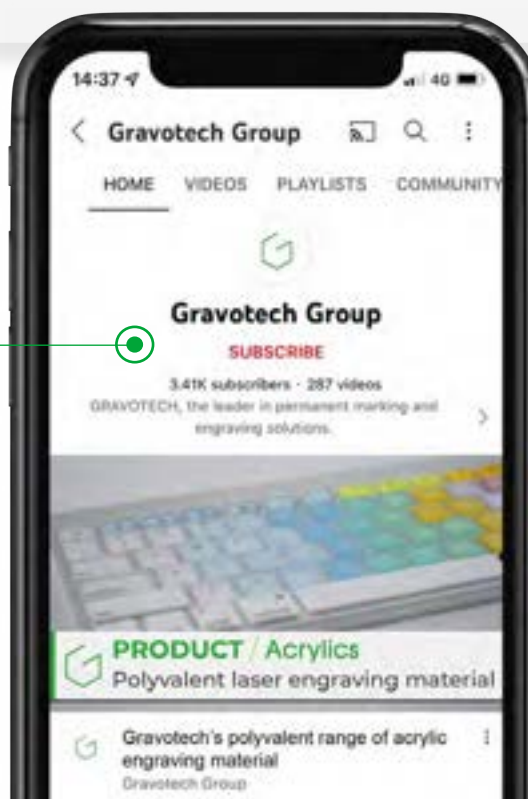
LASER MATERIALS

GRAVOTECH — EXPRESSION OF THINGS

SELECTION GUIDE

		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)
	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	Coloured Aluminium	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

ROTARY MATERIALS

GRAVOTECH — EXPRESSION OF THINGS

SELECTION GUIDE

		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

FLEXIBLE FOILS		METALLICS	METALS				PHENOLICS		ADA
Flexilase™	Gravofoil™	Metallex™	Gravometall™	Gravobrass™ Exterior	Coloured Aluminium	Gravoxal™	Gravostral™	Gravostrat™	Gravotac™
■		■				■		■	
■									
■	■	■	■	■	■	■	■	■	■
■	■	■	■	■		■	■	■	■
■	■	■		■		■	■		■
■		■					■		
■		■	■	■		■	■		■
			■		■				
■									
		■							■
					■	■	■		
			■	■					
	■								
							■	■	
■	■	■	■	■	■	■	■	■	
■	■	■	■	■	■	■	■	■	■
■	■			■		■			
■	■		■	■	■	■			■
		■		■	■	■	■	■	■
	■	■	■	■	■		■	■	■
	■	■	■						■
		■	■						■
					■	■	■	■	■
■	■	■							■
■	■	■	■	■	■	■	■	■	■
■	■					■			
-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)	-40°C (-40°F)
80°C (176°F)	80°C (176°F)	80°C (176°F)	200°C (392°F)	370°C (700°F)	100°C (212°F)	200°C (392°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)
52	53	54-55	56-57	58	59	60-61	62	63	64

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

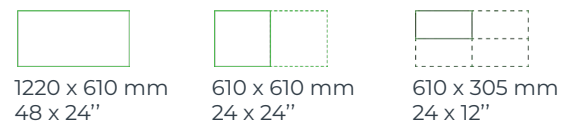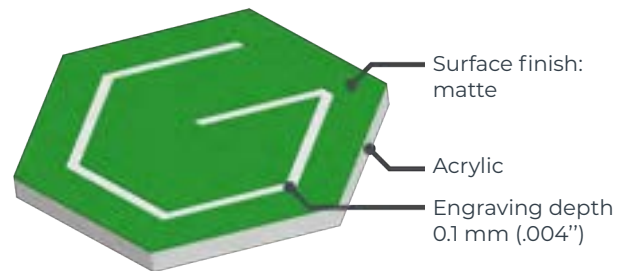## Flexibility and performance for indoor and outdoor applications

Surface colour	Core colour	Thickness			
		0.8 mm (1/32")	1.3 mm (0.050")	1.6 mm (1/16")	3.2 mm (1/8")
white	red		51006	70005	
white	blue		51011		
white	black	51017	49971	69991	93128
yellow	red		51007	70006	
yellow	blue		51012		
yellow	black	51018	49973	69992	93131
orange	white	51035	51005	80767	
orange	black	51020	51001	80768	
red	white	51034	49988	69995	93127
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	93132
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	93130
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.

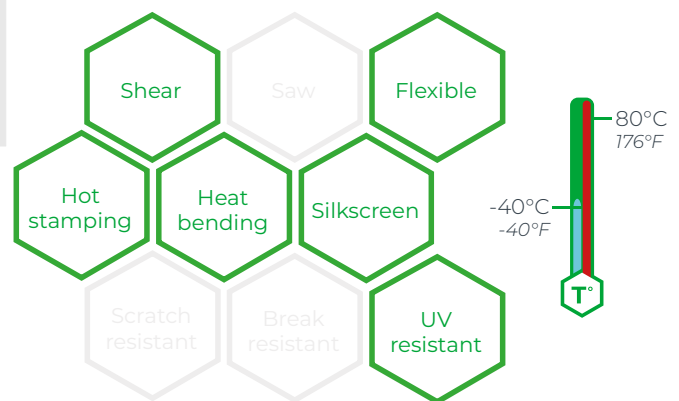- Cost effective: one product, one stock, many applications.

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

Surface finish: matte

Acrylic

Engraving depth 0.1 mm (.004")

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Outdoor signage

Small labels and plates

Industrial signage

Architectural signage

LASER MATERIALS

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	

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

- 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...
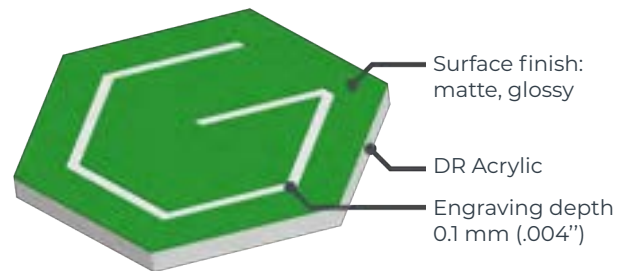
AVAILABLE SHEET SIZES

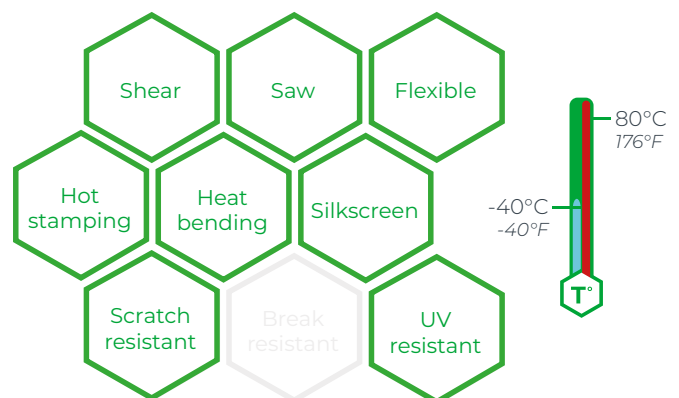1220 x 610 mm
48 x 24"

610 x 610 mm
24 x 24"

610 x 305 mm
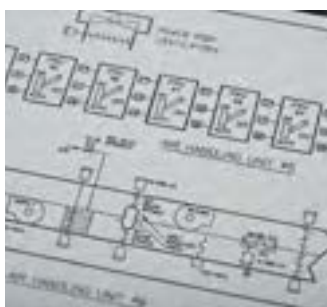24 x 12"

MATERIAL SPECIFICITIES

Surface finish: matte, glossy

DR Acrylic

Engraving depth 0.1 mm (.004")

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Industrial synoptic

GLASS RECYCLING

Information label

Outdoor signage

M' and M' Butler

Small plate

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

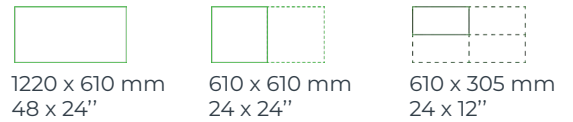**LASER MATERIALS**

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		

* 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.

• 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.
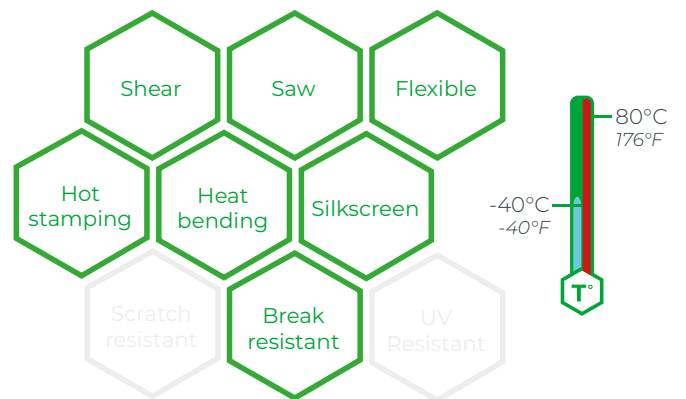
AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24''

610 x 610 mm
24 x 24''

610 x 305 mm
24 x 12''

MATERIAL SPECIFICITIES

Surface finish: matte

ABS

Engraving depth 0.1 mm (.004'')

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Braille signage

Indoor signage

Small labels and plates

Badges

LASER MATERIALS

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

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
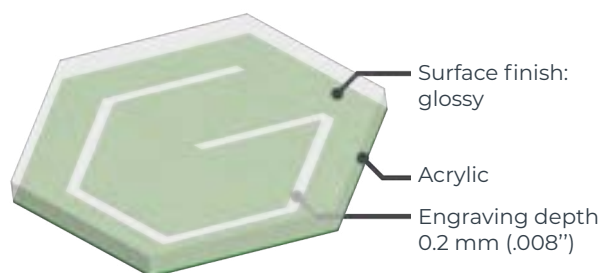
1220 x 610 mm
48 x 24"

610 x 610 mm
24 x 24"

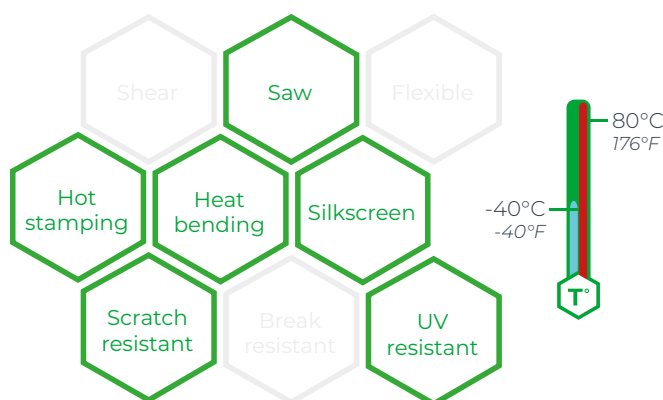610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: glossy

Acrylic

Engraving depth 0.2 mm (.008")

COMPLEMENTARY PRODUCTS

See page 80

Spacers

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

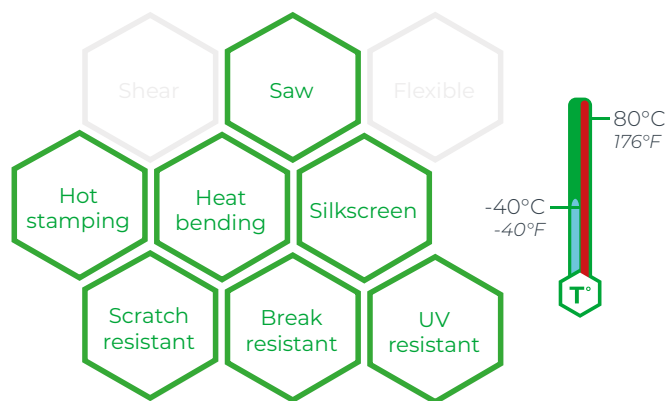Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Visual communication

Stencil

Professional plates

Measure tools

LASER MATERIALS

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

ACRYLIC - CLEAR

Let your creativity flow!

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

Surface finish: glossy

Acrylic

COMPLEMENTARY PRODUCTS

See page 80

Spacers

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Gift and decoration

Promotional items

Light and illumination

Trophy and awards

LASER MATERIALS

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!

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

Surface finish: glossy

Acrylic

COMPLEMENTARY PRODUCTS

See page 80   See page 82   See page 83

Spacers   Ball chains   Nickel-plated steel ring

MATERIAL CAPABILITIES

Shear   Saw   Flexible

Hot stamping   Heat bending   Silkscreen

Scratch resistant   Break resistant   UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Decoration   Promotional items   Gifts   Display

LASER MATERIALS

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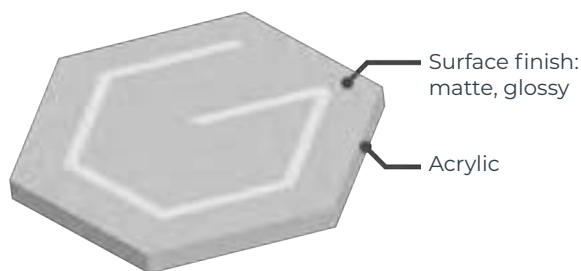
ACRYLIC - FROSTED

Let your creativity flow!

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 CO_2 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

Surface finish:
matte, glossy

Acrylic

COMPLEMENTARY PRODUCTS

See page 80

Spacers

See page 80

Screws

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Decoration

Gifts and promotional items

Decoration

Creative signage

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

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 CO_2 and mechanical engraving and cutting on both the front and the back. Can also be used as a substrate.

- Fine white contrast with CO_2 laser on opaque black. Opaque white perfect for UV printing.

AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24"

610 x 610 mm
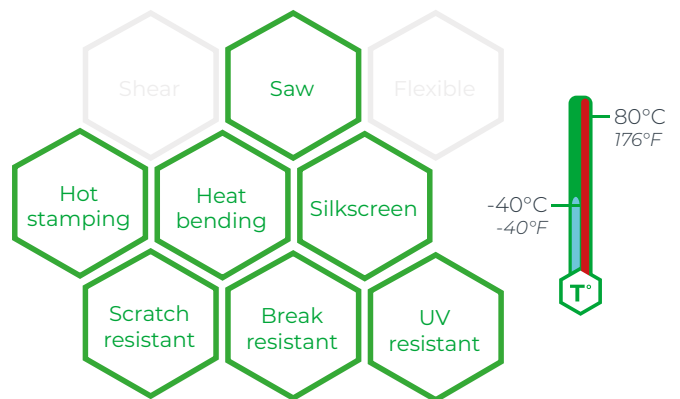24 x 24"

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: matte, glossy

Acrylic

COMPLEMENTARY PRODUCTS

See page 78

Double-sided
19 mm

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Decoration

Visual communication

Letter cut out

Indoor and outdoor signage

LASER MATERIALS

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

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

Surface finish: rough

Acrylic

COMPLEMENTARY PRODUCTS

See page 76

Gravoclean

See page 78

Adhesive mounting tape

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F
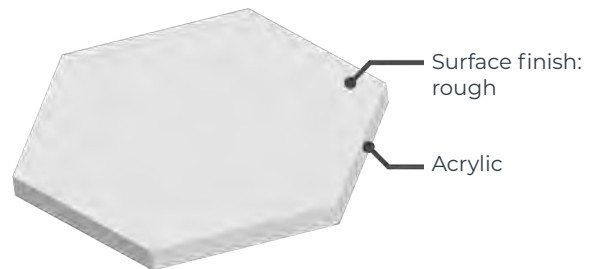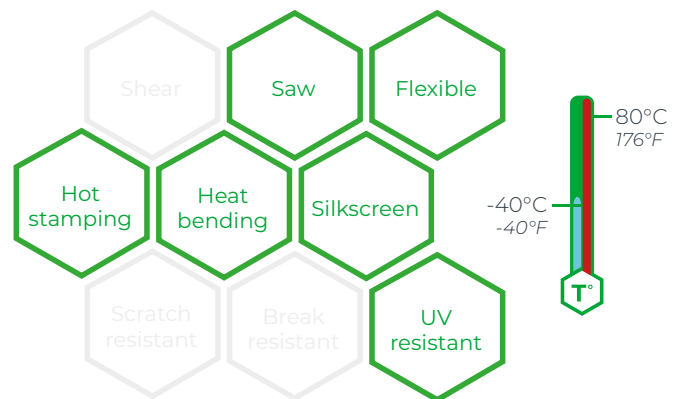
APPLICATIONS

Cutting shapes

Cutting-out template

Industrial stencil

Paint filling

LASER MATERIALS

RUBBALASE™

The laserable material made of natural rubber

Core colour	Thickness
	2.2 mm (0.087'')
natural rubbalase	19897
odourless rubbalase	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

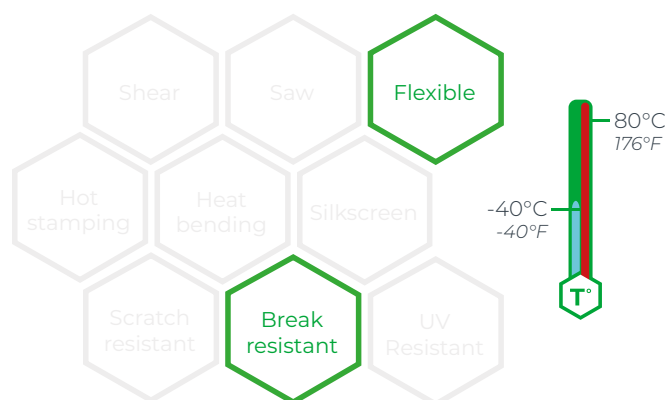297 x 210 mm
11.7 x 8.3''

MATERIAL SPECIFICITIES

Surface finish: matte

Rubber

COMPLEMENTARY PRODUCTS

See page 79

Gravogrip™

MATERIAL CAPABILITIES

Shear · Saw · **Flexible** · Hot stamping · Heat bending · Silkscreen · Scratch resistant · **Break resistant** · UV Resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Any professional stamps

Administration and shops

Any legal dept. needs

Stationnary and DIY

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

FLEXILASE™

The flexible material for high-definition engraving

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

Note:
Purple, pine green, grey and metallics surfaces are subject to premature colourfading.
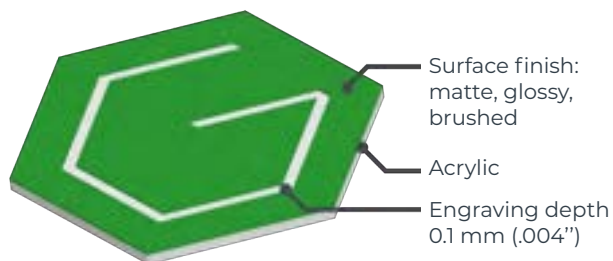
You can mix any surface and core colours on demand.

• 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 CO_2 engraving and cutting.

• Delivered with adhesive backing. Metallic colours for cups and trophies to be personalised.
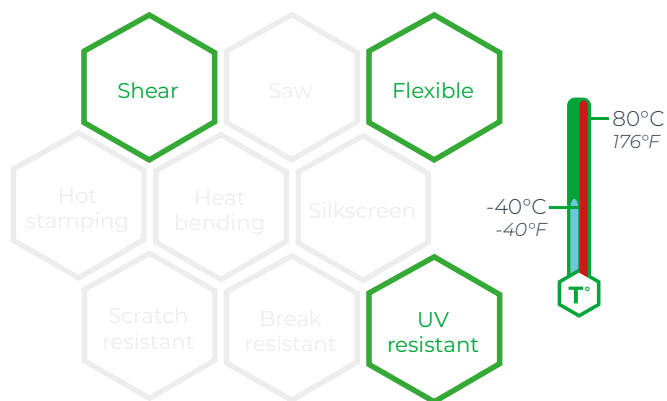
AVAILABLE SHEET SIZES

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: matte, glossy, brushed

Acrylic

Engraving depth 0.1 mm (.004")

MATERIAL CAPABILITIES

Shear
Saw
Flexible

Hot stamping
Heat bending
Silkscreen

Scratch resistant
Break resistant
UV resistant

80°C
176°F

-40°C
-40°F

T°

APPLICATIONS

Industrial labels

Labels for personalisation

Trophy plates

Labels for curved surfaces

LASER MATERIALS

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

STICKALASE™

The ultimate ultra fine laserable material

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

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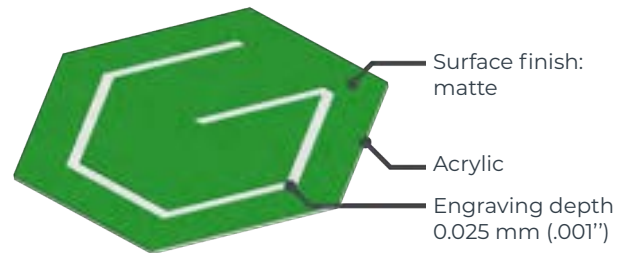*For a larger choice of colours, see Flexilase™.*

• Our thinnest material: surface layer of 0.09 mm (0.004") for fine engraving and clean cut when using a CO_2 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

Surface finish: matte

Acrylic

Engraving depth 0.025 mm (.001'')

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

200°C
392°F

-60°C
-76°F

T°
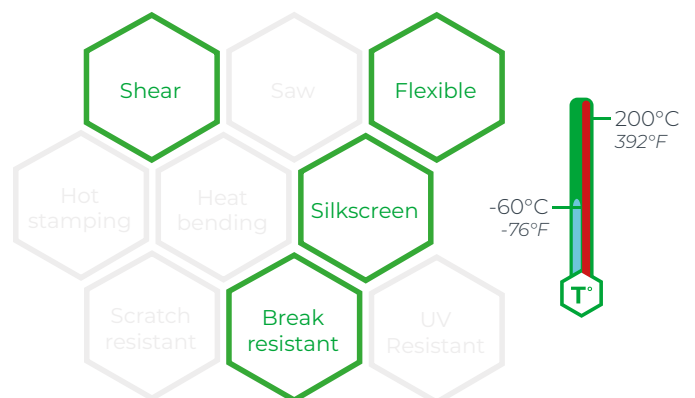
APPLICATIONS

Small labels to stick

Inventory labels

Barcode

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

LASER MATERIALS

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 aluminium	**black**		51025	49981	77657
matt aluminium	**black**		51024	51002	
brushed bronze	**black**	29544		51004	
copper	**black**	29546			29556
radiant gold	**black**		51028	49983	
new 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.
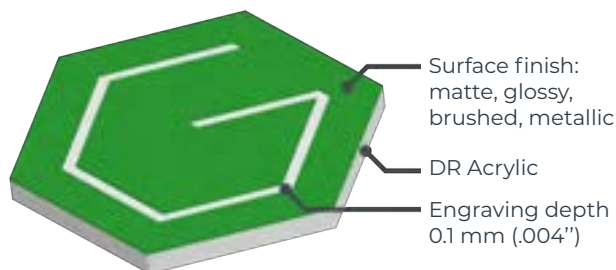
AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24''

610 x 610 mm
24 x 24''

610 x 305 mm
24 x 12''

MATERIAL SPECIFICITIES

Surface finish: matte, glossy, brushed, metallic

DR Acrylic

Engraving depth 0.1 mm (.004'')

COMPLEMENTARY PRODUCTS

See page 78

Double-sided 50mm

See page 79

Gravofix

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

80°C
176°F

-40°C
-40°F

T°

APPLICATIONS

Trophy plates

Award plates

Badges

Indoor signage

LASER MATERIALS

COLOURED ALUMINIUM

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

Surface finish: glossy, satin

Aluminium

Engraving depth 0.2 mm (.008")

COMPLEMENTARY PRODUCTS

See page 78

Double-sided 19 mm

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

100°C
212°F

-40°C
-40°F

APPLICATIONS

Directional signage

Name plate

Informative signage

LASER MATERIALS

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	aluminium		18581			
red	aluminium		18577	18591		
green	aluminium		18583	18597		
blue	aluminium		18579	18593		
silver	aluminium	18385	22055	18386	22057	22059
gold	aluminium	18571	18575	18589	18603	
bronze	aluminium		18585	18599		
black	aluminium	18569	18573	18587	18601	18614

Note:
Protective film on one side.

Due to the anodisation process, differences in colour may occur from one batch to the next, and 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.

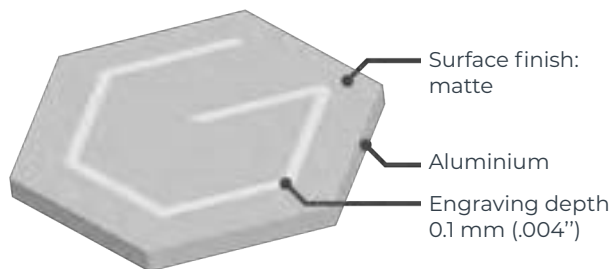*Gravoxal™ Matte silver also available in 4 mm (1/6''): Ref. 18388.*

· 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.
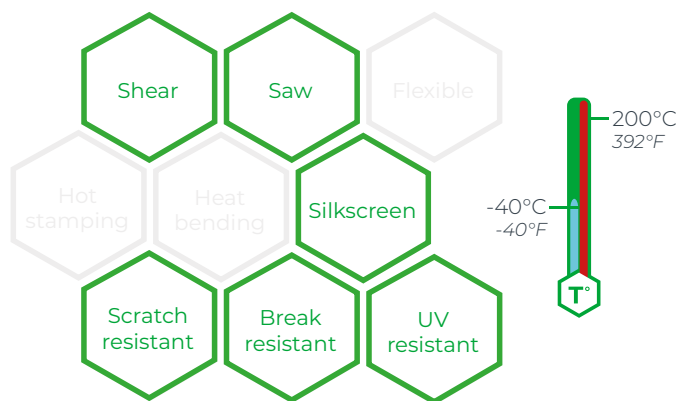
AVAILABLE SHEET SIZES

1000 x 500 mm
39 x 19''

MATERIAL SPECIFICITIES

Surface finish: matte

Aluminium

Engraving depth 0.1 mm (.004'')

MATERIAL CAPABILITIES

Shear
Saw
Flexible
Hot stamping
Heat bending
Silkscreen
Scratch resistant
Break resistant
UV resistant

200°C *392°F*
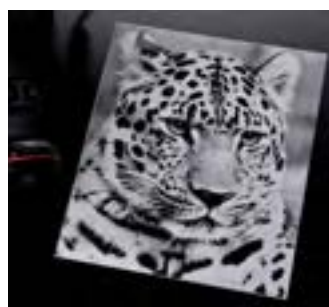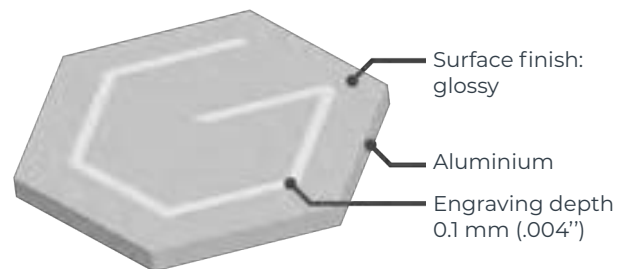
-40°C *-40°F*

APPLICATIONS

Large signage

Control panels

Pictures

Small plates

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

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	aluminium	18640		
red	aluminium	18636	18658	
green	aluminium	18642	18664	
blue	aluminium	18638	18660	
silver	aluminium	18618	18646	18668
steel look	aluminium	30381	30382	30383
gold	aluminium	18630	18654	18674
black	aluminium	18624	18650	18671

Note:
Protective film on one side.

Due to the anodisation process, differences in colour may occur from one batch to the next, and 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.
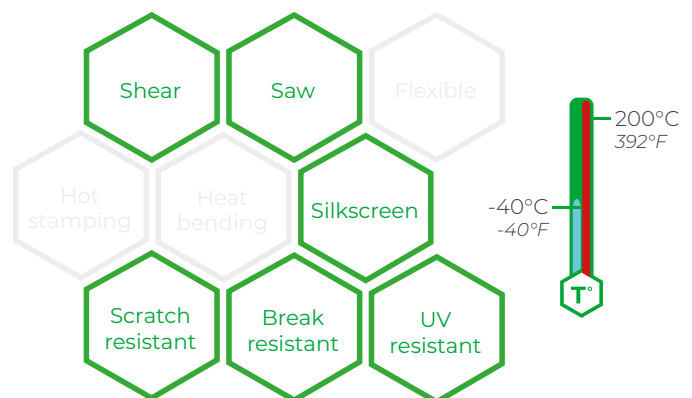
AVAILABLE SHEET SIZES

1000 x 500 mm
39 x 19''

MATERIAL SPECIFICITIES

Surface finish: glossy

Aluminium

Engraving depth 0.1 mm (.004'')

MATERIAL CAPABILITIES

Shear
Saw
Flexible
Hot stamping
Heat bending
Silkscreen
Scratch resistant
Break resistant
UV resistant

200°C *392°F*
-40°C *-40°F*

APPLICATIONS

Control panel

Indoor signage

Aluminium tags

Exterior signage

ALUMAMARK®

Black marking on aluminium with CO2 engraving

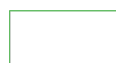| Surface colour	Core colour	Thickness		
		*0.5 mm (0.020'')	*0.127 mm (0.005'')	0.5 mm (0.020'')
satin silver	**black**	27419	27414	27417
satin gold	**black**	27416		27415
satin brass	**black**	45878		45879

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'')
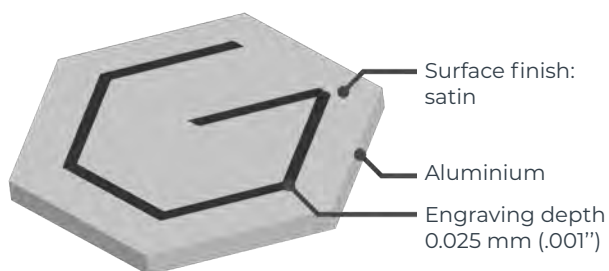
* Delivered with adhesive backing.

· 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.

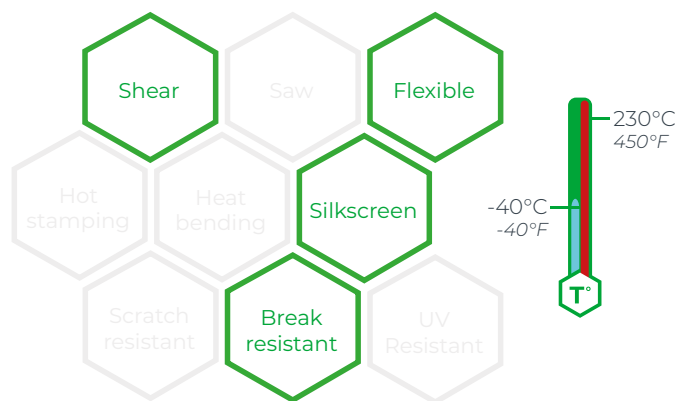· Fine details and shades of grey, ideal for photos.

AVAILABLE SHEET SIZES

610 x 508 mm
24 x 20''

MATERIAL SPECIFICITIES

Surface finish: satin

Aluminium

Engraving depth 0.025 mm (.001'')

MATERIAL CAPABILITIES

Shear
Saw
Flexible
Hot stamping
Heat bending
Silkscreen
Scratch resistant
Break resistant
UV Resistant

230°C
450°F

-40°C
-40°F

APPLICATIONS

Small plates and labels

Picture reproductions

ID plates

Bar codes

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 *0.5 mm (0.020'')
black	silver	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 corosive chemicals, ASTM B117 30 days exposure to salt fog.

Due to the anodisation process, differences in colour may occur from one batch to the next.

* 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.
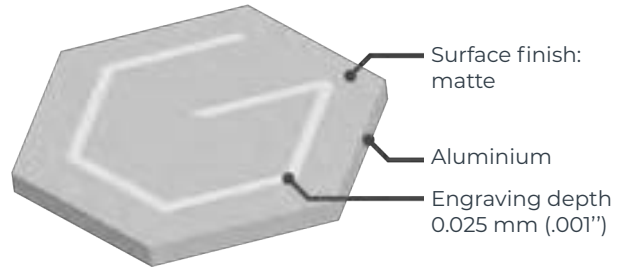
AVAILABLE SHEET SIZES

610 x 508 mm
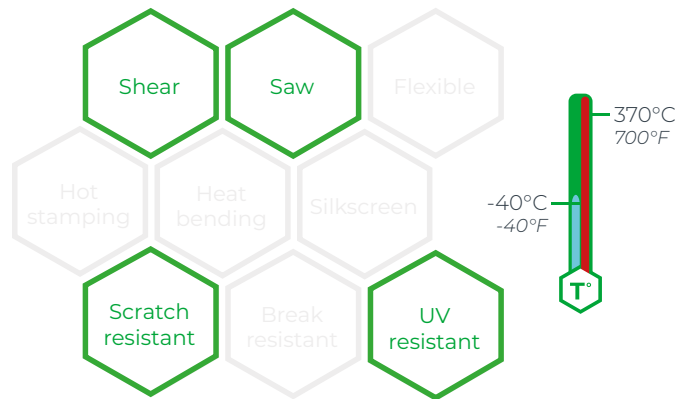24 x 20''

508 x 305 mm
20 x 12''

MATERIAL SPECIFICITIES

Surface finish: matte

Aluminium

Engraving depth 0.025 mm (.001'')

COMPLEMENTARY PRODUCTS

See page 79

Gravogrip™

MATERIAL CAPABILITIES

Shear
Saw
Flexible
Hot stamping
Heat bending
Silkscreen
Scratch resistant
Break resistant
UV resistant

370°C
700°F

-40°C
-40°F
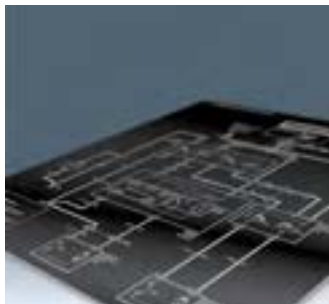
APPLICATIONS

Industrial synoptic

Pictures reproductions

Outdoor signage

Asset tags

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

LASER MATERIALS

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

Surface finish: glossy

Phenolic

Engraving depth 0.3 mm (.012'')

COMPLEMENTARY PRODUCTS

See page 82

See page 83

Ball chains

Nickel-plated steel ring
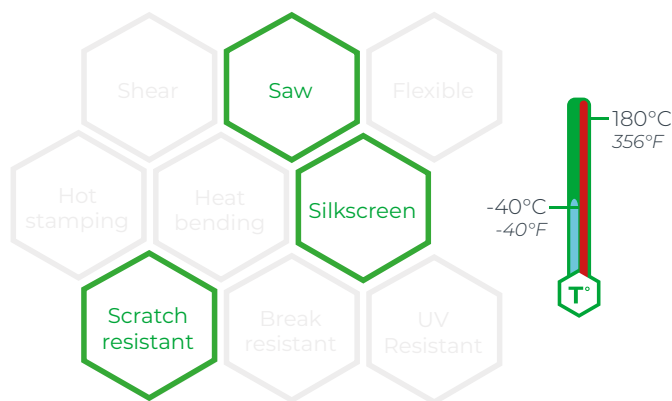
MATERIAL CAPABILITIES

Shear · Saw · Flexible · Hot stamping · Heat bending · Silkscreen · Scratch resistant · Break resistant · UV Resistant

180°C / 356°F
-40°C / -40°F

APPLICATIONS

Indoor signage

Safety sign

Push button

Industrial identification

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

LASER MATERIALS

GRAVOTAC™ EXTERIOR

## The outdoor laserable braille material

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
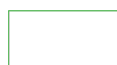
1220 x 610 mm
48 x 24"

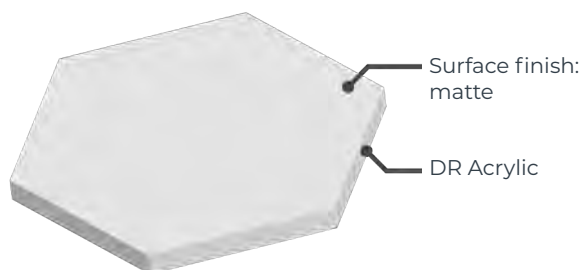610 x 610 mm
24 x 24"

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.
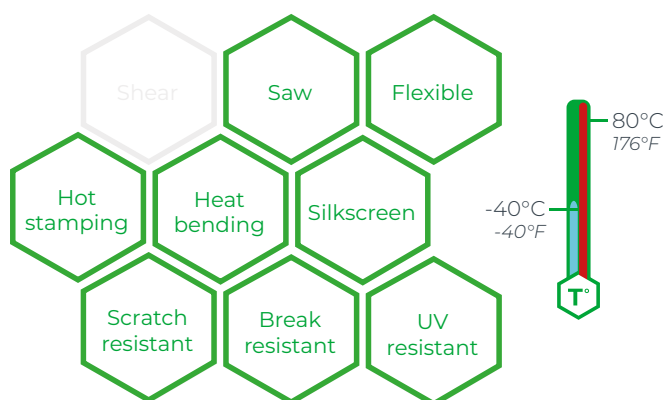
For better visibility, choose contrasted colours.

COMPLEMENTARY PRODUCTS

See page 76

Gravoclean

MATERIAL SPECIFICITIES

Surface finish: matte

DR Acrylic

MATERIAL CAPABILITIES

Shear · Saw · Flexible · Hot stamping · Heat bending · Silkscreen · Scratch resistant · Break resistant · UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Icons and pictograms

Braille and tactile signage

Outdoor signage

Tactile signage

LASER MATERIALS

LASER WOOD

Think Green. Go Green.

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

COMPLEMENTARY PRODUCTS

See page 79

Masking paper

See page 78

Transfer

APPLICATIONS

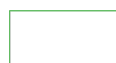Decoration and gifts

Architectural models

Interior signage

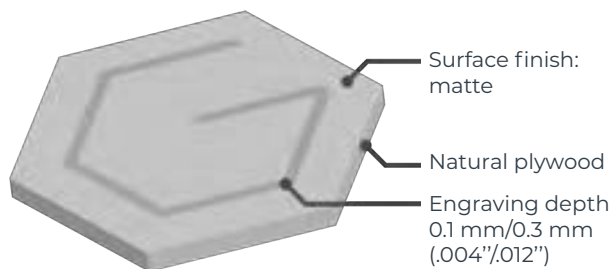Personalized cards and DIY

· 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 aluminium for modern and trendy creations!
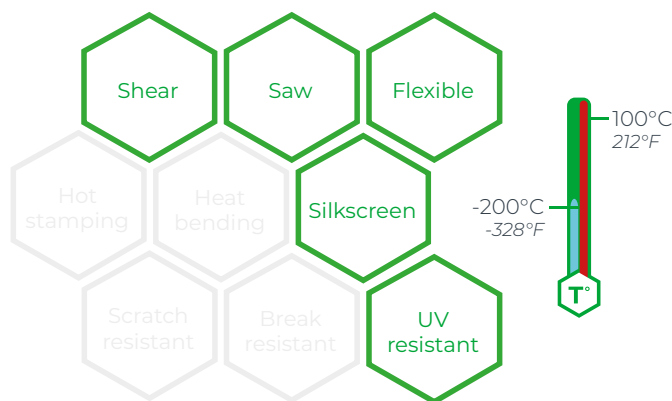
AVAILABLE SHEET SIZES

610 x 305 mm
24 x 12''

MATERIAL SPECIFICITIES

Surface finish: matte

Natural plywood

Engraving depth 0.1 mm/0.3 mm (.004''/.012'')

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

100°C
212°F

-200°C
-328°F

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

MUSEUM

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

* References in green are double-sided

• 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.
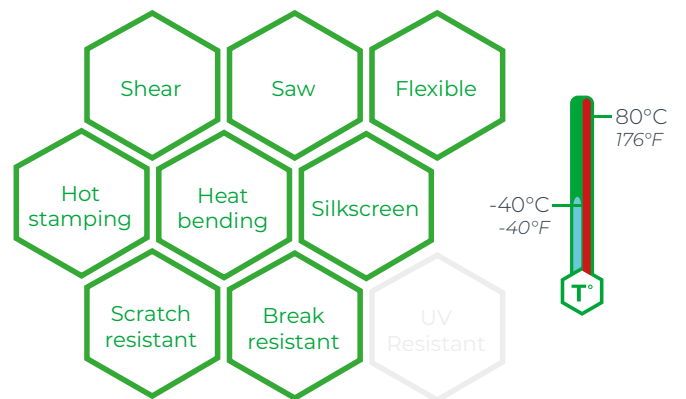
AVAILABLE SHEET SIZES
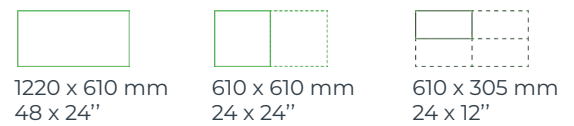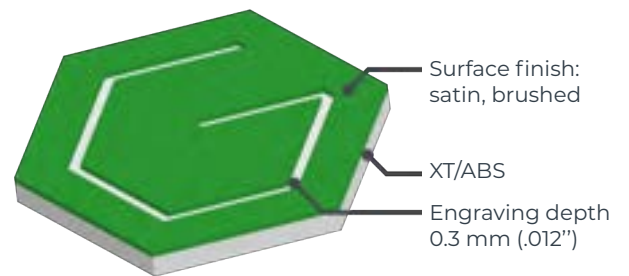
1220 x 610 mm
48 x 24"

610 x 610 mm
24 x 24"

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: satin, brushed

XT/ABS

Engraving depth 0.3 mm (.012")

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

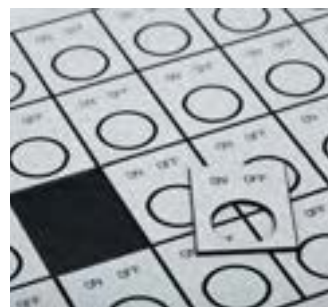UV Resistant

80°C
176°F

-40°C
-40°F

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.

ROTARY MATERIALS

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		

* 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.

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

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

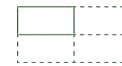• Wide choice of colours, ideal for your badges, ID plates & indoor signage engraving.
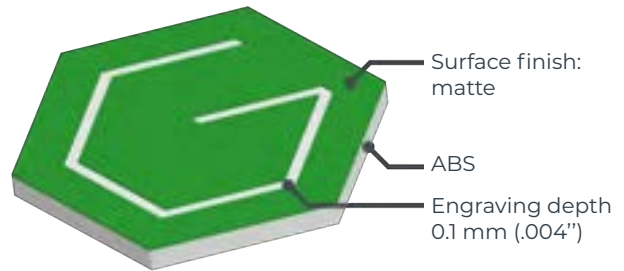
AVAILABLE SHEET SIZES
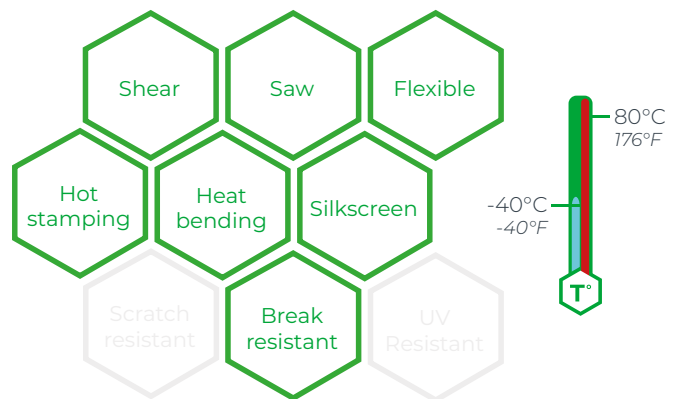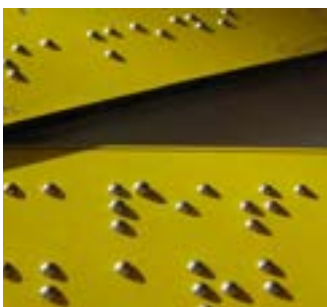
1220 x 610 mm
48 x 24''

610 x 610 mm
24 x 24''

610 x 305 mm
24 x 12''

MATERIAL SPECIFICITIES

Surface finish: matte

ABS

Engraving depth 0.1 mm (.004'')

MATERIAL CAPABILITIES

Shear
Saw
Flexible
Hot stamping
Heat bending
Silkscreen
Scratch resistant
Break resistant
UV Resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Braille signage

Indoor signage

Small labels and plates

Badges

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

ROTARY MATERIALS

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.

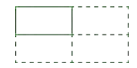- Recommended for deeply engraved signage.
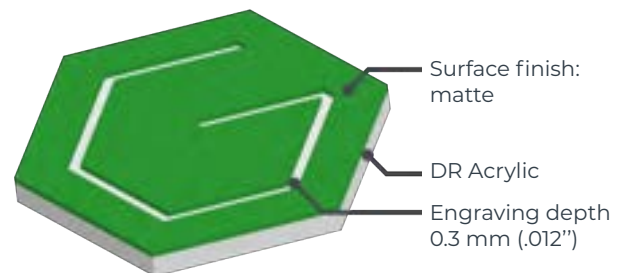
AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24"

610 x 610 mm
24 x 24"

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: matte

DR Acrylic

Engraving depth 0.3 mm (.012")

COMPLEMENTARY PRODUCTS

See page 76

Gravoclean

See page 80

Spacers

See page 81

Aluminium plant label holder

MATERIAL CAPABILITIES

Shear | Saw | Flexible

Hot stamping | Heat bending | Silkscreen

Scratch resistant | Break resistant | UV resistant

80°C
176°F

-40°C
-40°F
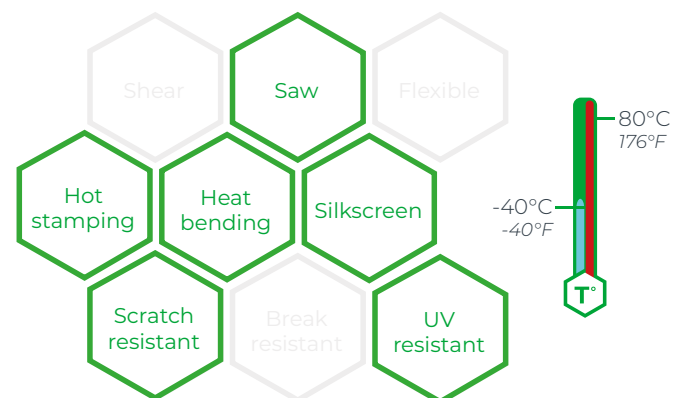
APPLICATIONS

Legend plate

Industrial signage

Directional signage

Information plate

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

ROTARY MATERIALS

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	red	17907	18063
white	black	17892	18051
yellow	black	17901	18060
red	white	17895	18054
apple green	white	17910	18066
pine green	white	17918	
azure blue	white	17898	18057
silver grey	black	17930	18078
gold	black	17927	18075
black	white	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

Surface finish: glossy

DR Acrylic

Engraving depth 0.3 mm (.012")

COMPLEMENTARY PRODUCTS

See page 76
Gravoclean

See page 80
Wooden support

See page 80
Screws

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F
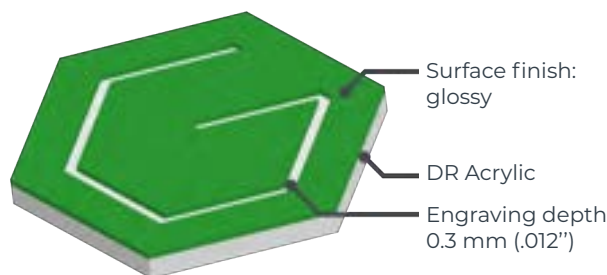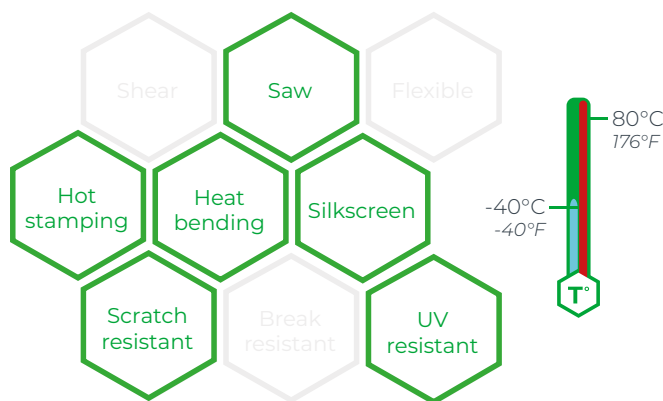
APPLICATIONS

Professional plate

Outdoor signage

Location identification

Information label

ROTARY MATERIALS

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

GRAVOGLAS™ 2-PLEX™ - TEXTURED SURFACE

A strong acrylic material for outdoor use

Surface colour	Core colour	Thickness 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

Surface finish: textured

DR Acrylic

Engraving depth 0.3 mm (.012")
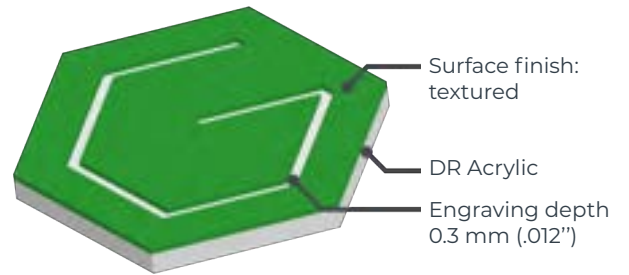
COMPLEMENTARY PRODUCTS

See page 76 — Industrial Degraising Spray

See page 82 — Ball chains

See page 83 — S-Hook rings

MATERIAL CAPABILITIES

Shear, Saw, Flexible, Hot stamping, Heat bending, Silkscreen, Scratch resistant, Break resistant, UV resistant

80°C 176°F
-40°C -40°F
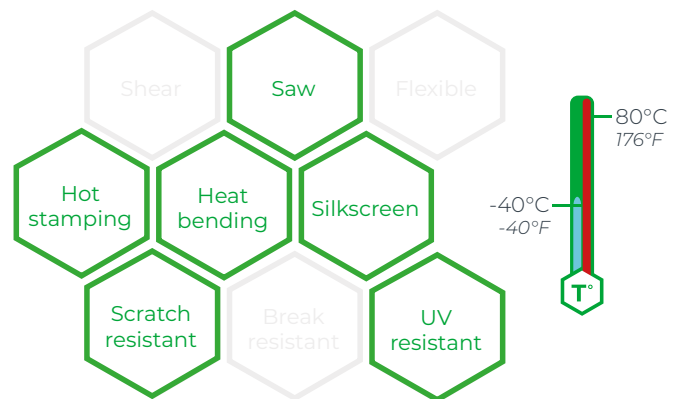
APPLICATIONS

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.

ROTARY MATERIALS

GRAVOPLY™ 3C

The only comprehensive range offering 3 levels of colour

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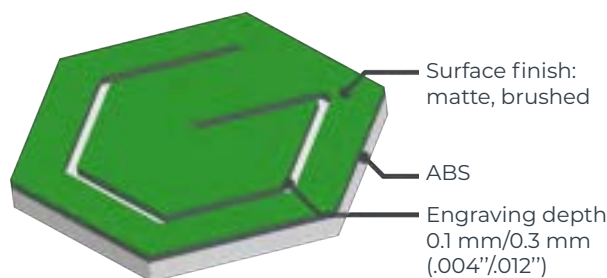
AVAILABLE SHEET SIZES

1220 x 600 mm
48 x 24"

610 x 600 mm
24 x 24"

600 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: matte, brushed

ABS

Engraving depth 0.1 mm/0.3 mm (.004"/.012")

COMPLEMENTARY PRODUCTS

See page 76

Gravoclean

See page 78

Double-Sided Adhesives 50mm

MATERIAL CAPABILITIES

Shear
Saw
Flexible
Hot stamping
Heat bending
Silkscreen
Scratch resistant
Break resistant
UV Resistant

80°C
176°F

-40°C
-40°F
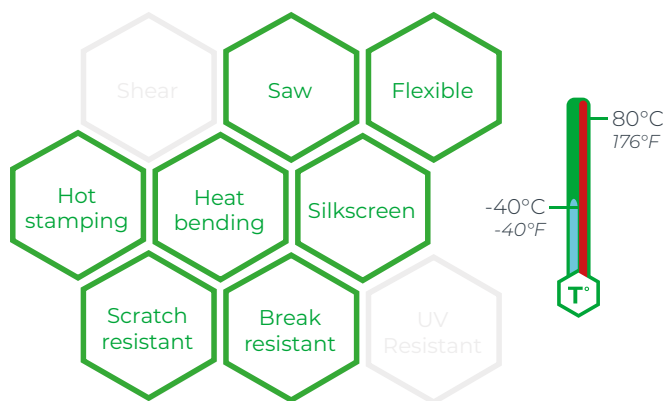
APPLICATIONS
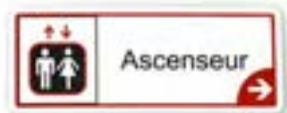
Signage

Safety sign
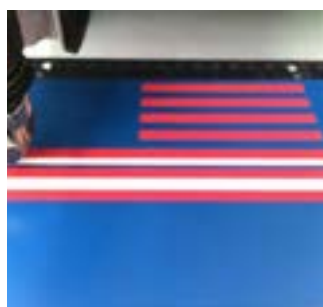
Logos and pictures

Pictograms

ROTARY MATERIALS

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.
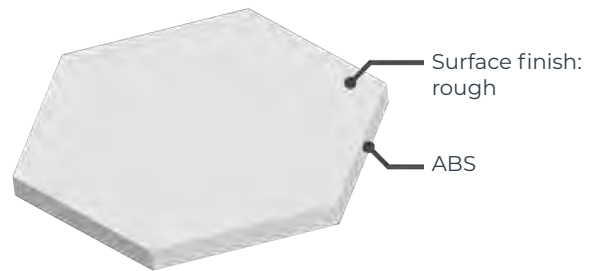
AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24''

610 x 610 mm
24 x 24''

610 x 305 mm
24 x 12''

MATERIAL SPECIFICITIES

Surface finish: rough

ABS

COMPLEMENTARY PRODUCTS

See page 76

See page 78

Gravoclean

Adhesive mounting tape

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

80°C
176°F

-40°C
-40°F
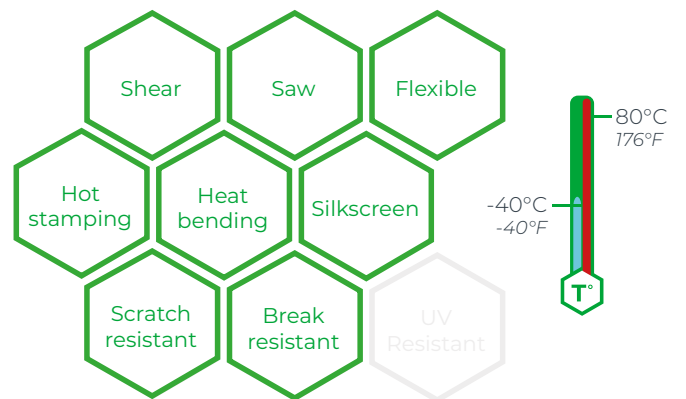
APPLICATIONS

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	**clear**	17941	18082
white	**clear**	17947	18086
yellow	**clear**	17956	
red	**clear**	17950	
azure blue	**clear**	17953	
silver grey	**clear**	17961	34406
black	**clear**	17944	18084

GLOSSY

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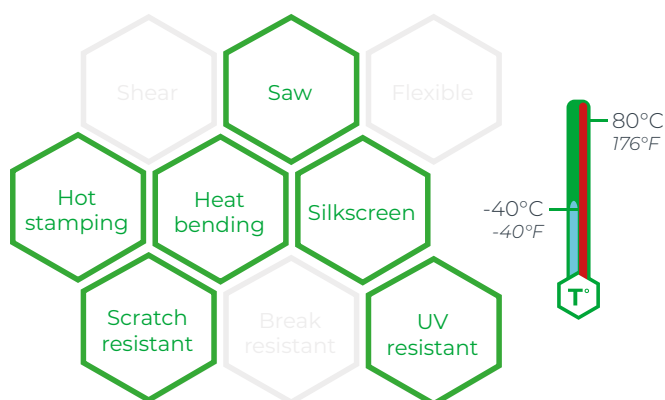
COMPLEMENTARY PRODUCTS

See page 73

Gravolaque

See page 80

Wooden support

See page 80

Screws

APPLICATIONS

Outdoor signage

Small pieces

Letter cut out

Gift and decoration

- Engrave the back, so the front always protects the engraving.

- After mechanical reverse engraving, can be paint filled.

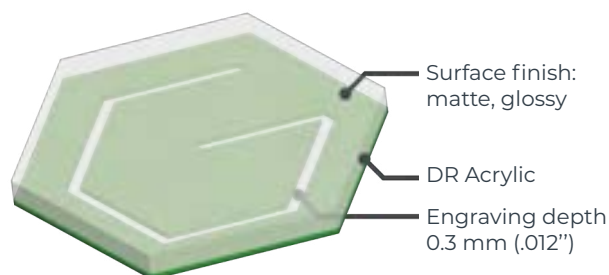- Resists to fingerprints, scratches and UV.

AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24"

610 x 610 mm
24 x 24"

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: matte, glossy

DR Acrylic

Engraving depth 0.3 mm (.012")

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

ROTARY MATERIALS

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

ACRYLIC - CLEAR

Let your creativity flow!

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.
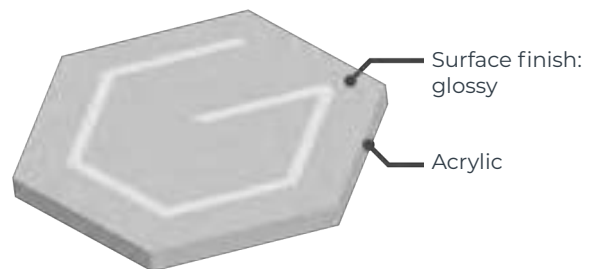
AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24"

610 x 610 mm
24 x 24"

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: glossy

Acrylic

COMPLEMENTARY PRODUCTS

See page 73

Gravolaque

See page 73

Application Kit

See page 80

Spacers

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

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.

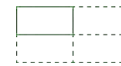• Can also be used as a substrate. For even more creative possibilities, combine it with the other Acrylic materials.

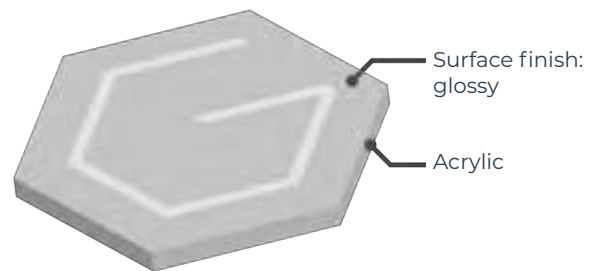## AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24"

610 x 610 mm
24 x 24"

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

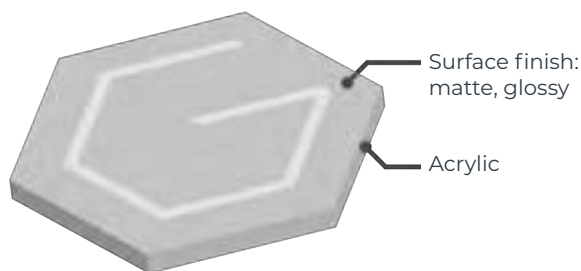Surface finish: glossy

Acrylic

COMPLEMENTARY PRODUCTS

See page 80

Spacers

See page 82

Ball chains

See page 83

Nickel-plated steel ring

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F
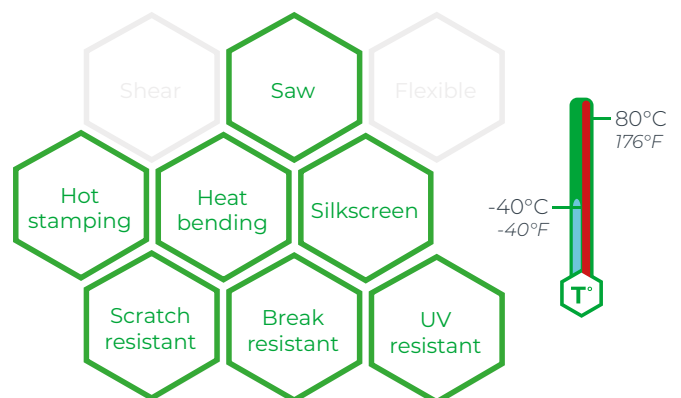
APPLICATIONS

Decoration

Promotional items

Gifts

Display

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

ROTARY MATERIALS

ACRYLIC - FROSTED

Let your creativity flow!

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

Surface finish: matte, glossy

Acrylic

COMPLEMENTARY PRODUCTS

See page 80

Spacers

See page 80

Screws

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Decoration

Gifts and promotional items

Decoration

Creative signage

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

ACRYLIC - OPAQUE

Let your creativity flow!

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.

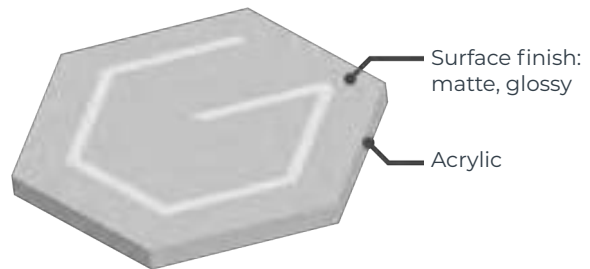## AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24"

610 x 610 mm
24 x 24"

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: matte, glossy

Acrylic

COMPLEMENTARY PRODUCTS

See page 73
Gravolaque

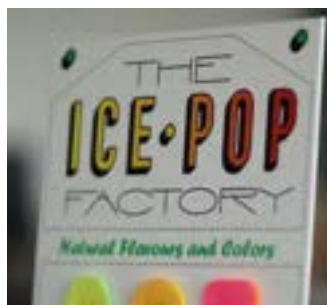See page 73
Application Kit

See page 78
Double-sided 19 mm

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

80°C
176°F

-40°C
-40°F

APPLICATIONS

Decoration

Visual communication

Letter cut out

Indoor and outdoor signage

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

ROTARY MATERIALS

FLEXILASE™

The flexible material for high-definition engraving

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

Note:
Purple, pine green, grey and metallics surfaces are subject to premature colourfading.
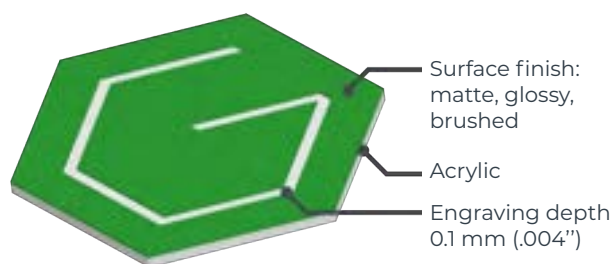
You can mix any surface and core colours on demand.

• 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 CO_2 engraving and cutting.

• Delivered with adhesive backing. Metallic colours for cups and trophies to be personalised.
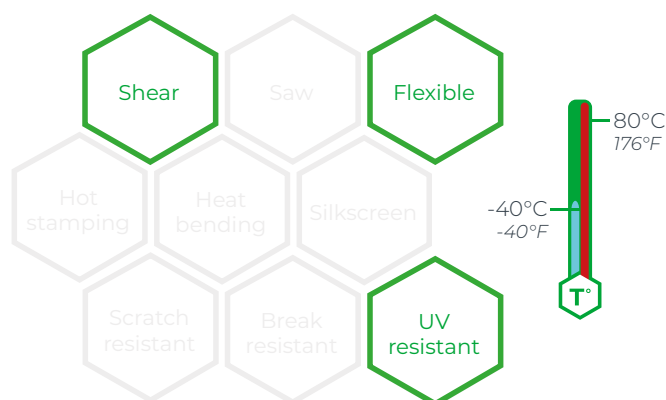
AVAILABLE SHEET SIZES

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: matte, glossy, brushed

Acrylic

Engraving depth 0.1 mm (.004")

MATERIAL CAPABILITIES

Shear — Saw — Flexible

Hot stamping — Heat bending — Silkscreen

Scratch resistant — Break resistant — UV resistant

80°C
176°F

-40°C
-40°F

T°

APPLICATIONS

Industrial labels

Labels for personalisation

Trophy plates

Labels for curved surfaces

ROTARY MATERIALS

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

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.
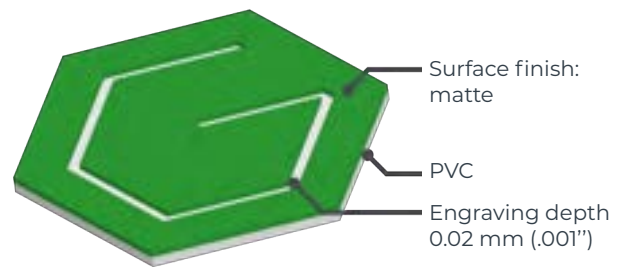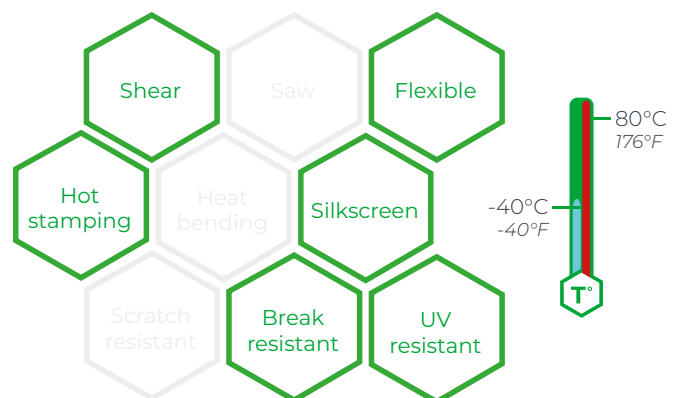
AVAILABLE SHEET SIZES

660 x 480 mm
25 x 18''

480 x 330 mm
18 x 12.5''

MATERIAL SPECIFICITIES

Surface finish: matte

PVC

Engraving depth 0.02 mm (.001'')

MATERIAL CAPABILITIES

Shear
Saw
Flexible

Hot stamping
Heat bending
Silkscreen

Scratch resistant
Break resistant
UV resistant

80°C *176°F*

-40°C *-40°F*

APPLICATIONS

Pipes and valves identification

Permanent labels

Pipes identification

Industrial labels

ROTARY MATERIALS

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 aluminium	**black**	21867	21941	21999
brushed aluminium	**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.

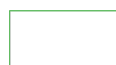*On demand pre-cut tags available, ideal for machines or to enhance productivity.*

With it 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.
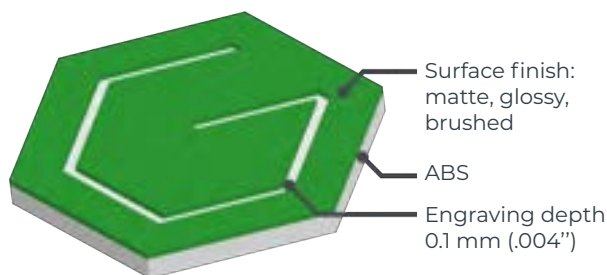
AVAILABLE SHEET SIZES

1220 x 610 mm
48 x 24''

610 x 610 mm
24 x 24''

610 x 305 mm
24 x 12''

MATERIAL SPECIFICITIES

Surface finish: matte, glossy, brushed

ABS

Engraving depth 0.1 mm (.004'')

COMPLEMENTARY PRODUCTS

See page 78

See page 79

Double-sided 50mm

Gravofix™

MATERIAL CAPABILITIES

Shear · Saw · Flexible
Hot stamping · Heat bending · Silkscreen
Scratch resistant · Break resistant · UV Resistant

80°C
176°F

-40°C
-40°F
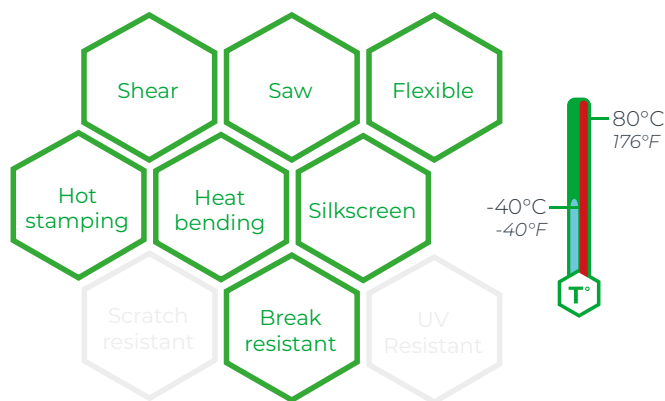
APPLICATIONS

Pictograms

Trophy plates

Indoor signage

Badges

ROTARY MATERIALS

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 aluminium	**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.

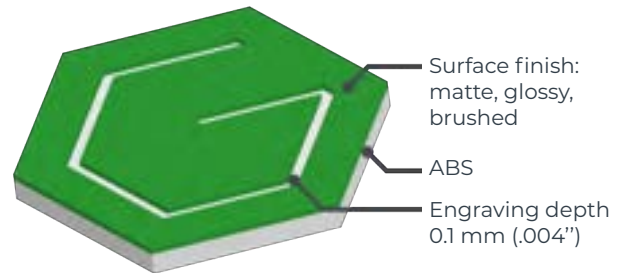## AVAILABLE SHEET SIZES

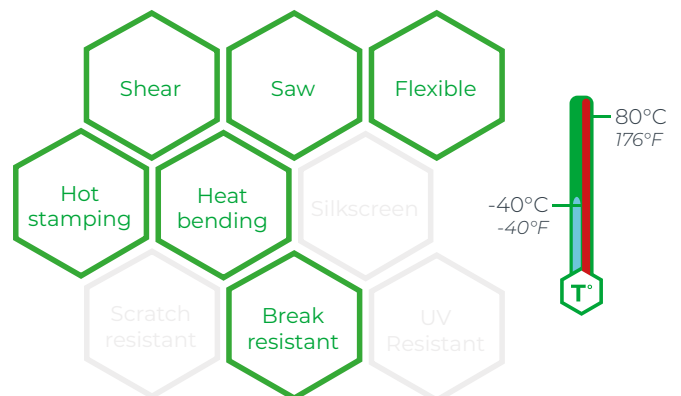1220 x 610 mm 48 x 24"
610 x 610 mm 24 x 24"
610 x 305 mm 24 x 12"

MATERIAL SPECIFICITIES

Surface finish: matte, glossy, brushed
ABS
Engraving depth 0.1 mm (.004")

MATERIAL CAPABILITIES

Shear, Saw, Flexible, Hot stamping, Heat bending, Silkscreen, Scratch resistant, Break resistant, UV Resistant

80°C 176°F
-40°C -40°F

APPLICATIONS

Ornamental plates

Indoor signage

Badges

Small signage

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

ROTARY MATERIALS

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.

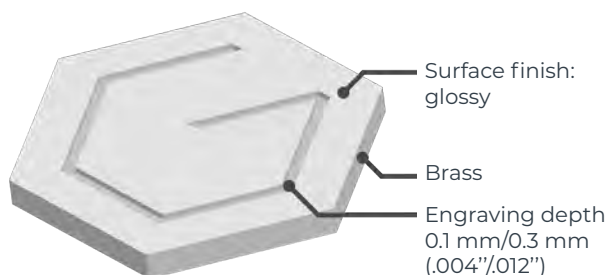• High quality brass and high-end rendering with a shiny aspect.

AVAILABLE SHEET SIZES

1220 x 305 mm
48 x 12"

610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES

Surface finish: glossy

Brass

Engraving depth 0.1 mm/0.3 mm (.004"/.012")

COMPLEMENTARY PRODUCTS

See page 74

Gravoxide

See page 73

Gravolaque

MATERIAL CAPABILITIES

Shear
Saw
Flexible
Hot stamping
Heat bending
Silkscreen
Scratch resistant
Break resistant
UV Resistant

200°C
392°F

-40°C
-40°F
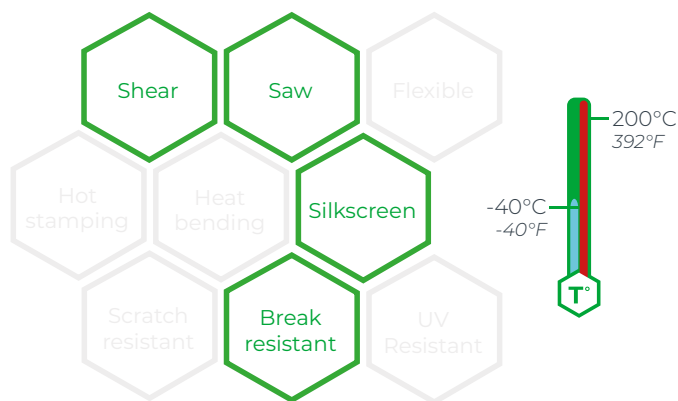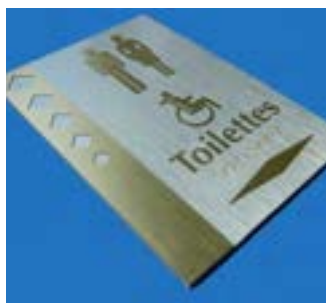
APPLICATIONS

Trophy plates

Indoor signage

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

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™.
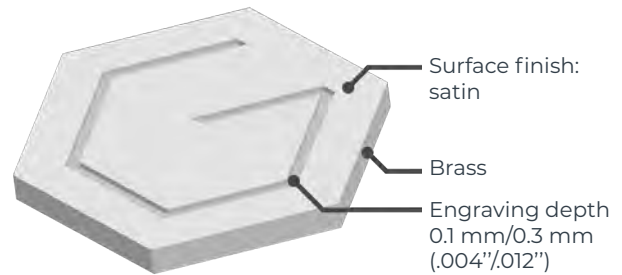
AVAILABLE SHEET SIZES

1220 x 305 mm
48 x 12''

610 x 305 mm
24 x 12''

MATERIAL SPECIFICITIES

Surface finish: satin

Brass

Engraving depth 0.1 mm/0.3 mm (.004''/.012'')

COMPLEMENTARY PRODUCTS

See page 74

Gravoxide

See page 73

Gravolaque

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

200°C
392°F

-40°C
-40°F
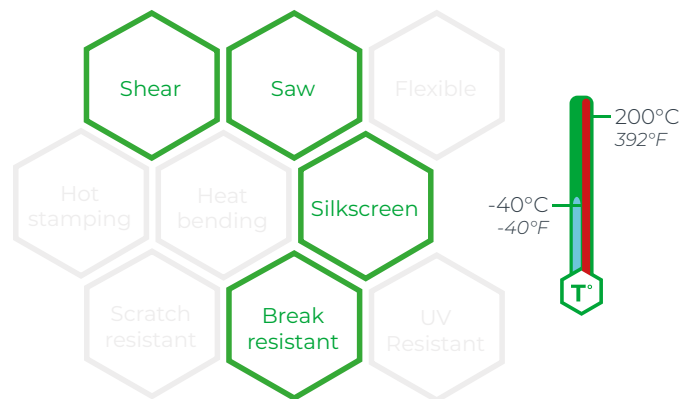
APPLICATIONS

Indoor signage

Architectural signage

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

ROTARY MATERIALS

GRAVOBRASS™ EXTERIOR

The watchmaking-quality brass for outdoor use

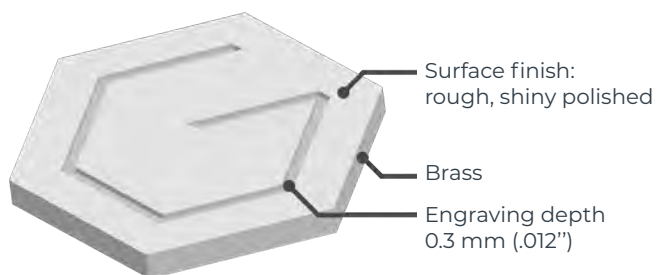| Core colour	Thickness			
	1.0 mm (0.040")	1.5 mm (1/16")	2.0 mm (1/12")	3.0 mm (1/8")
shiny polished brass	22032	22034	22036	22038
solid brass	22031	22033	22035	22037

Note:
Brass oxidation is a natural phenomenon. Clean your Gravobrass™ 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
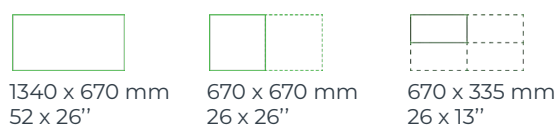
1340 x 670 mm
52 x 26''

670 x 670 mm
26 x 26''

670 x 335 mm
26 x 13''

MATERIAL SPECIFICITIES

Surface finish: rough, shiny polished

Brass

Engraving depth 0.3 mm (.012'')

COMPLEMENTARY PRODUCTS

See page 77

Engravolube solution

See page 73

Gravolaque

See page 73

Application Kit

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

370°C *700°F*

-40°C *-40°F*
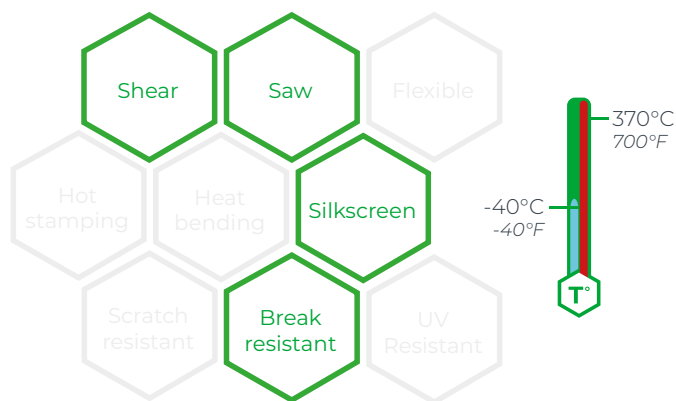
APPLICATIONS

Architectural signage

Company name plaques

High quality signage

Professional plaques

ROTARY MATERIALS

COLOURED ALUMINIUM

The coloured aluminium for a striking contrast

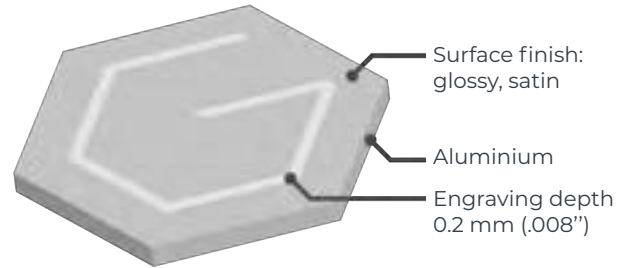| Surface colour	Core colour	Thickness 0.6 mm (0.025")
red	silver	34528
blue	silver	34497
satin gold	silver	34595
glossy gold	silver	34596
satin silver	silver	34625
glossy silver	silver	34626
black	silver	34455

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

Surface finish: glossy, satin

Aluminium

Engraving depth 0.2 mm (.008")
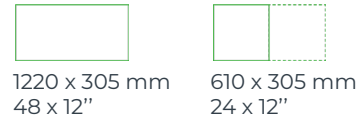
COMPLEMENTARY PRODUCTS

See page 77
Surfex® lubricant

See page 76
Universal Cleaner

See page 78
Double-sided 19 mm

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

100°C
212°F

-40°C
-40°F
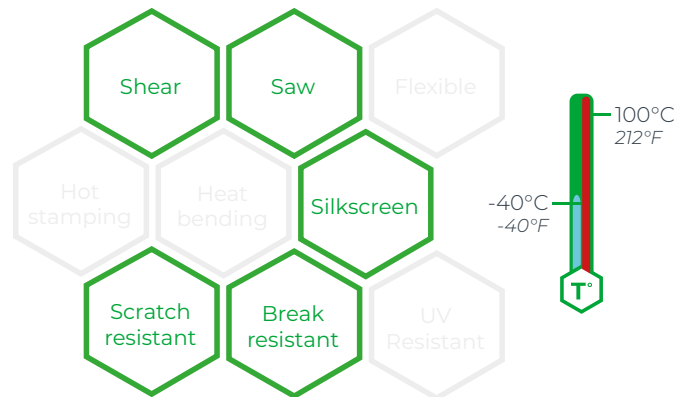
APPLICATIONS

Directional signage

Name plate

Informative signage

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

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	aluminium		18581			
red	aluminium		18577	18591		
green	aluminium		18583	18597		
blue	aluminium		18579	18593		
silver	aluminium	18385	22055	18386	22057	22059
gold	aluminium	18571	18575	18589	18603	
bronze	aluminium		18585	18599		
black	aluminium	18569	18573	18587	18601	18614

Note:
Protective film on one side.

Due to the anodization process, differences in colour may occur from one batch to the next, and there can be stains in the corners of aluminum sheets.
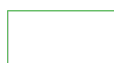
Laser engraving on all colours except silver. The engraving contrast may vary according to the colour.

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

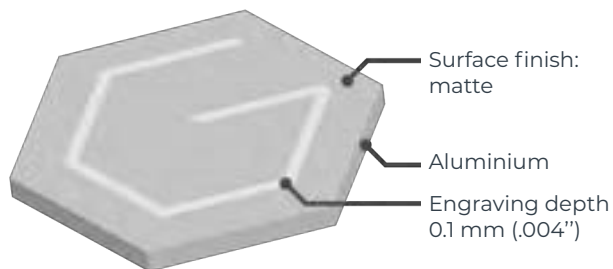*Gravoxal™ Matte silver also available in 4 mm (1/6''): Ref. 18388.*

• 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

Surface finish: matte
Aluminium
Engraving depth 0.1 mm (.004'')

MATERIAL CAPABILITIES

Shear
Saw
Flexible
Hot stamping
Heat bending
Silkscreen
Scratch resistant
Break resistant
UV resistant

200°C / 392°F
-40°C / -40°F

APPLICATIONS

Large signage

Control panels

Pictures

Small plates

ROTARY MATERIALS

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	aluminium	18640		
red	aluminium	18636	18658	
green	aluminium	18642	18664	
blue	aluminium	18638	18660	
silver	aluminium	18618	18646	18668
steel look	aluminium	30381	30382	30383
gold	aluminium	18630	18654	18674
black	aluminium	18624	18650	18671

Note:
Protective film on one side.

Due to the anodization process, differences in colour may occur from one batch to the next, and there can be stains in the corners of aluminum 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.
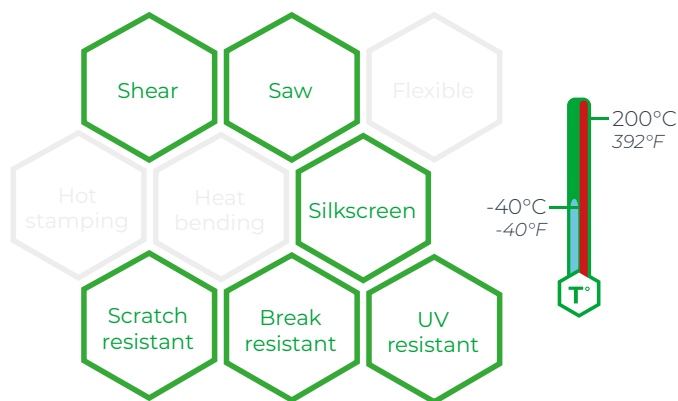
AVAILABLE SHEET SIZES

1000 x 500 mm
39 x 19"

MATERIAL SPECIFICITIES

Surface finish: glossy
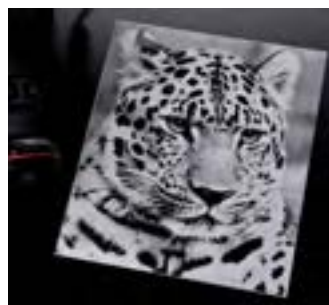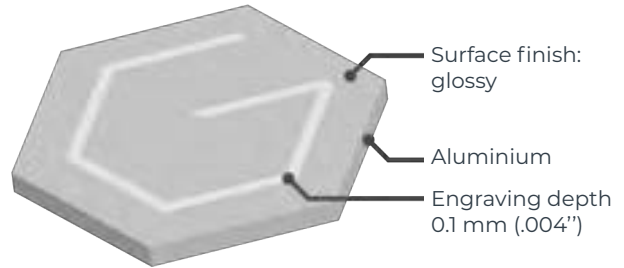
Aluminium

Engraving depth 0.1 mm (.004'')

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV resistant

200°C *392°F*

-40°C *-40°F*

APPLICATIONS

Control panel

Indoor signage

Aluminium tags

Exterior signage

ROTARY MATERIALS

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
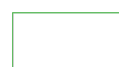
1220 x 605 mm
48 x 23''

610 x 605 mm
24 x 23''

605 x 305 mm
23 x 12''

MATERIAL SPECIFICITIES

Surface finish: matte, brushed

Aluminium/Phenolic

Engraving depth 0.3 mm (.012'')

MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

180°C
356°F

-40°C
-40°F
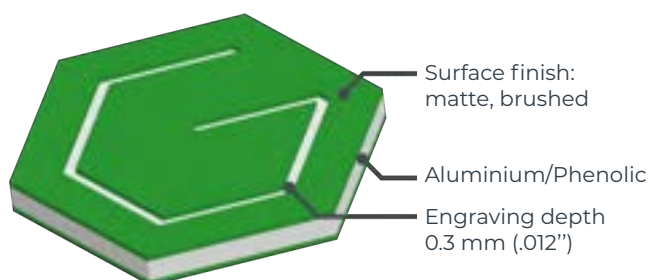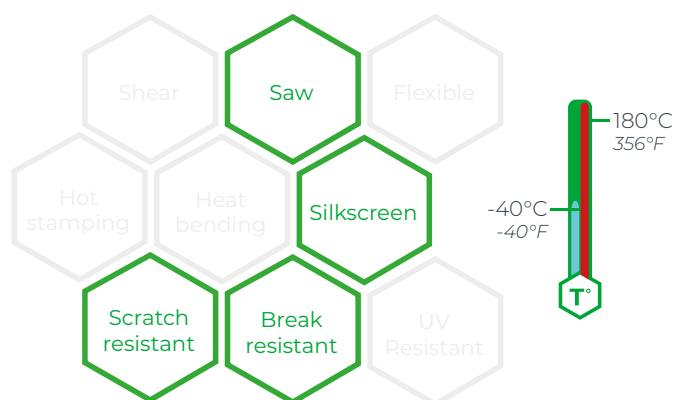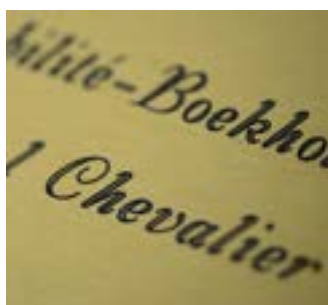
APPLICATIONS

Professional plaques

Identification plates

Signs for shops

Interior signage

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

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

Surface finish: glossy

Phenolic

Engraving depth 0.3 mm (.012")

COMPLEMENTARY PRODUCTS

See page 76

See page 82

See page 83

Industrial Degraising Spray

Ball chains

Nickel-plated steel ring
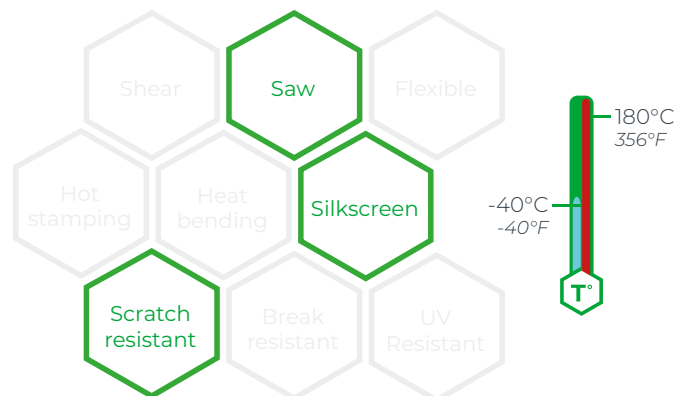
MATERIAL CAPABILITIES

Shear

Saw

Flexible

Hot stamping

Heat bending

Silkscreen

Scratch resistant

Break resistant

UV Resistant

180°C
356°F

-40°C
-40°F

APPLICATIONS

Indoor signage

Safety sign

Push button

Industrial identification

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

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	
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''

MATERIAL SPECIFICITIES
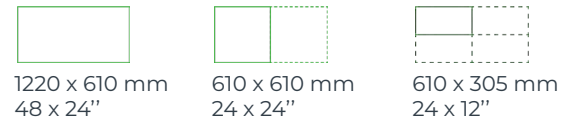
Surface finish: matte
ABS
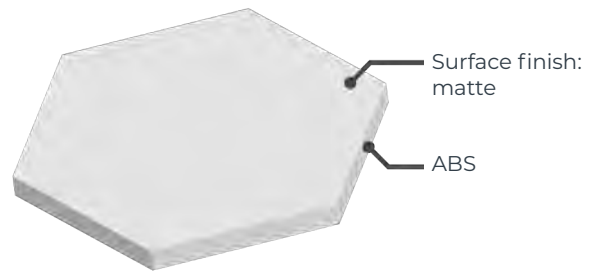
THE GRAVOTAC™ PROCESS

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.

MATERIAL CAPABILITIES

Shear, Saw, Flexible, Hot stamping, Heat bending, Silkscreen, Scratch resistant, Break resistant, UV Resistant

80°C 176°F / -40°C -40°F
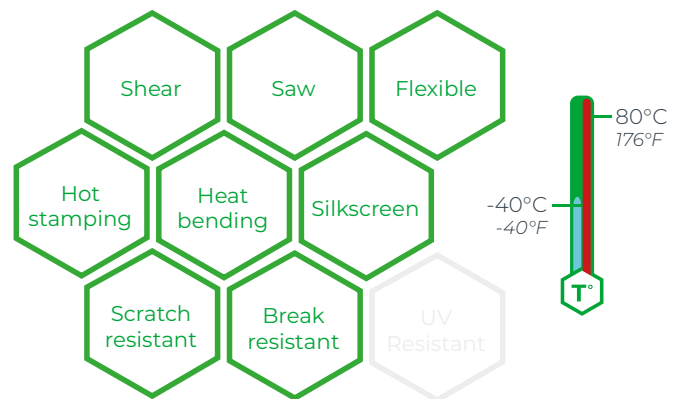
COMPLEMENTARY PRODUCTS

See page 76

Gravoclean

APPLICATIONS

Indoor signage

Pictograms

Shape cutting

Braille and tactile signage

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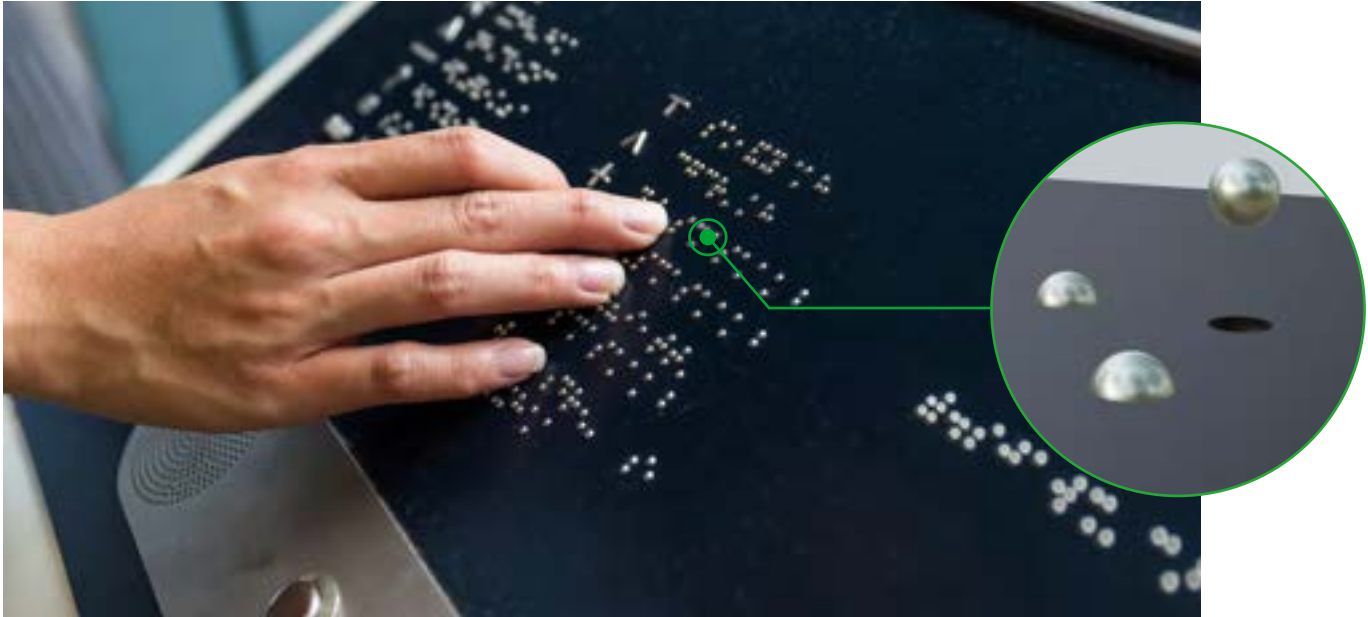
SIGNAGE

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, aluminium 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.

BRAILLE TOOL SELECTION GUIDE			
	Adhesive-free materials		Materials with adhesive
Support Material	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

Aluminum, brass, except stainless steel

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

SIGN HOLDERS & BASE PLATES
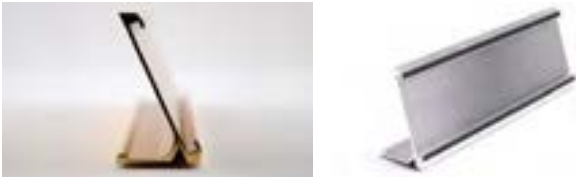
COUNTER AND DESK BASES

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		178 x 25 mm (7 x 1'')	silver	30072
Standard plate holder	1.6 mm (0.06'')	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

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	silver	19485
		254 x 51 mm (10 x 2")		gold	30069
				silver	30068
		102 x 25 mm (4 x 1")	adhesive	silver	19482
		203 x 38 mm (8 x 1.5")	screws	silver	34888
Wall plate holder with bevelled border to be glued		203 x 25 mm (8 x 1")	adhesive	silver	19483
Wall plate holder with square border		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")	102 mm min. (4" min.)	screws	silver	19487

SIMPLA

Finish your signs with care using a sign holder profile. The SIMPLA range is the ideal range of sign holders for companies, administrative buildings or any place open to the public.

SIMPLA's Classic format can be mounted directly on a flat surface such as a wall or door, to identify a variety of spaces at their entrance, such as offices, meeting rooms, commons areas or even toilets.

The Flag format is double-sided, so it can be fixed perpendicularly to walls, allowing it to be seen from a greater distance and indicating 2 different types of information.
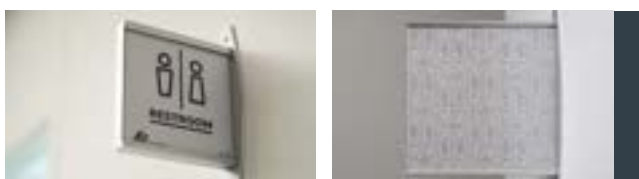
CLASSIC

- Material thickness ≤ 3mm
- Acrylic glass included, screws not included
- Indoor use

Dimensions	Insert dimensions	Insert thickness	Ref.
105 x 62,5 mm (4.13 x 2.44")	105 x 60 mm (4.13 x 2.44")		87672
210 x 62,5 mm (8.26 x 2.44")	210 x 60 mm (8.26 x 2.44")		87673
297 x 62,5 mm (11,69 x 2.44")	297 x 60 mm (11,69 x 2.44")		87674
105 x 107,5 mm (4.13 x 4,21")	105 x 105 mm (4.13 x 4.13")		87675
148 x 107,5 mm (5.82 x 4,21")	148 x 105 mm (5.82 x 4.13")		87676
105 x 150, 5 mm (4.13 x 5.92")	105 x 148 mm (4.13 x 5.82")		87677
148 x 150,5 mm (5.82 x 5.92")	148 x 148 mm (5.82 x 5.82")		87678
210 x 150,5 mm (8.26 x 5.92")	210 x 148 mm (8.26 x 5.82")	3 mm (0.11")	87679
148 x 212,5 mm (5.82 x 8.34")	148 x 210 mm (5.82 x 8.26")		87680
210 x 212,5 mm (8.26 x 8.34")	210 x 210 mm (8.26 x 8.26")		87681
297 x 212,5 mm (11,69 x 8.34")	297 x 210 mm (11,69 x 8.26")		87682
210 x 299,5 mm (8.26 x 11.77")	210 x 297 mm (8.26 x 11.69")		87683
420 x 299,5 mm (16.53 x 11.77")	420 x 297 mm (16.53 x 11.69")		87684
297 x 422,5 mm (11,69 x 16.61")	297 x 420 mm (11,69 x 16.53")		87685

FLAG

- Material thickness ≤ 3mm
- Acrylic glass included, screws not included
- Indoor use

Dimensions	Insert dimensions	Insert thickness	Ref.
105 x 107,5 mm (4.13 x 4.21")	105 x 105 mm (4.13 x 4.13")		87686
148 x 150,5 mm (5.82 x 5.90")	148 x 148 mm (5.82 x 5.82")		87687
210 x 150,5 mm (8.26 x 5.90")	210 x 148 mm (8.26 x 5.82")		87688
297 x 150,5 mm (11.69 x 5.90")	297 x 148 mm (11.69 x 5.92")	3 mm (0.11")	87689
210 x 212,2 mm (8.26 x x 8.34")	210 x 210 mm (8.26 x 8.26")		87690
297 x 212,5 mm (11.69 x 8.34")	297 x 210 mm (11.69 x 8.26")		87691

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 aluminium, 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 - 46mL (1,56oz)	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.

Thermark® is compatible with all types of metal except aluminium.

	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).

Cermark® is compatible with all types of metal except aluminium.

	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*

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. Gravolaque on demand colours : sold by 4 bottles.

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

	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*
		on demand	72203
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)

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.

ENGRAVING SUPPLIES

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.

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.

Wax sticks

COLD WAX STICKS

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

	Packaging type	Colour	Ref.
		silver	20214
		white	20215
Cold wax sticks	Box - 5 sticks	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

BEVELLED COTTON SAW (APPLICATION)

Pack - 10 units

Ref. 75167

Bevelled cotton swab specially designed for applying gilding wax in the hollow of an engraving.

FLAT COTTON (CLEANING)

Pack - 50 units

Ref. 75163

Flat cotton swab for cleaning engravings after applying a colouring product such as gilding waxes.

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).

Odourless, it presents no risk of irritations or allergies.

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

CLEANING

GRAVOCLEAN

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

	Packaging type	Ref.
Gravoclean	Spray - 750 mL (25.36 oz)	73180

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.
Delivered with tissues and cotton buds.

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.

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

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.

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

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.

TARFIL™ AT

Bottle - 215 g (7.58 oz)

Ref. 19526

Designed for ferrous metal engraving with local manual application.

SURFEX® LUBRICANT

Bottle - 1 L (33.8 oz)

Ref. 30368

For aluminium engraving and cutting only. Manual dispensing.

VECTOLUB™ LUBRICANT OIL

Bottle - 2 L (67.6 oz)

Ref. 23494

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

SOLUBLE OIL

Bottle - 1 L (33.8 oz)

Ref. 12913

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

POLYCOUPE™ LUBRICANT SPRAY

Spray - 250 mL (8.45 oz)

Ref. 19527*

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

ENGRAVING SUPPLIES

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 jewellery 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.

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. Suitable for both laser and CNC tables.

Cut to size on request.

Available sheet sizes
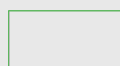
1220 x 610 mm	610 x 610 mm	610 x 305 mm
48 x 24"	24 x 24"	24 x 12"

GRAVOGRIP BOOST

Spray - 250 mL (8.45 oz)

Ref. 69669*

Reactivate your Gravogrip by spraying Gravogrip Boost on it.
Wipe off any residue or chips with a cloth to extend the life of
your Gravogrip surface.

Laser Wood accessories

MASKING PAPER

Unit - 1 unit (610 mm x 50 m)

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.

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

ENGRAVING SUPPLIES

MECHANICAL FASTENINGS

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.
Screw covers of 12 mm (0/47'') diameter.

	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'') sised 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'') sised label.
Suitable for 1.6 mm (1/16'') thick material.

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.
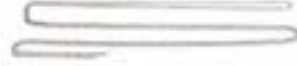
NICKEL-PLATED BRASS W/O FASTENER

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.

Ties

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

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

Pharmacy Technician

Globe Speaker Benoit

Tiina Kinnunen

Anahita

Chemist

Sunset Golf Club Instructor

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*

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

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.

CONCAVE CORNERS

CUT-TO-SIZE
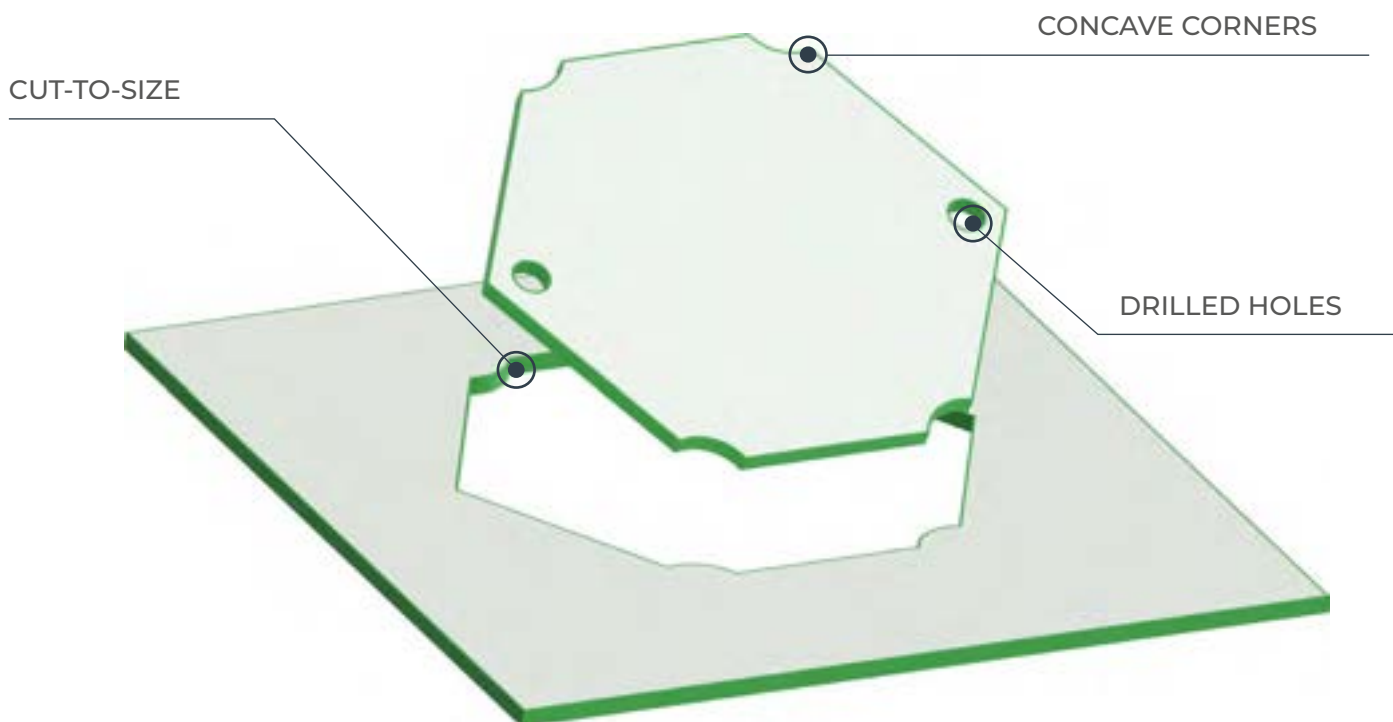
DRILLED HOLES

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.
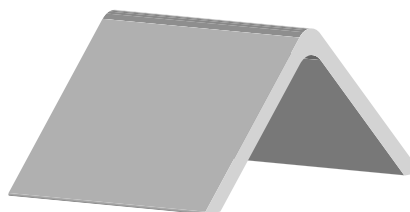
BENDING

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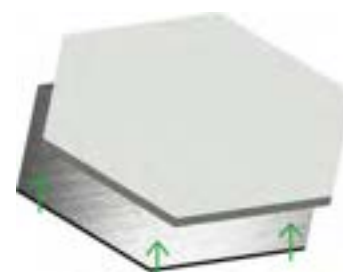
BACKING

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

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

Neuschwanstein ticket office

ENGRAVABLES

MEDALS
Anodised aluminium medals

Anodised 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 CO_2 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")

ENGRAVABLES

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	92648
nickel-plated			Pack - 10	87051

MODEL BONE

Colour	Dimensions	Hole diameter	Packaging type	Ref.
golden	35 x 23 mm (1.38 x 0.92")	3.7 mm (0.14")	Pack - 10	92649
nickel-plated			Pack - 10	87052

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	92647

MODEL BONE

Colour	Dimensions	Hole diameter	Packaging type	Ref.
nickel-plated	35 x 23 mm (1.38 x 0.92")	3.7 mm (0.14")	Pack - 10	92650

Neeklace plate

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	92646

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	92644
nickel-plated			Pack - 10	92645

ENGRAVABLES

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

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

MODEL B

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

MODEL C

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

MODEL D

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

MODEL E

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

MODEL F

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

MODEL G

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

MODEL H

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

MODEL I

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

MODEL J

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

MODEL K

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

MODEL L

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 (5.61 x 1.97")	
Unit - 1	Ref. 48336

MODEL U.2.

150 x 50 mm (5.61 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.

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

Hotel key rings

Hotel key ring made from anodised aluminium 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

ENGRAVABLES

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

ENGRAVABLES

Strips for electrical cabinets

To identify item lines on electrical cabinet doors or boards.
Minimum of order: 25 units.
Other dimensions, colours 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
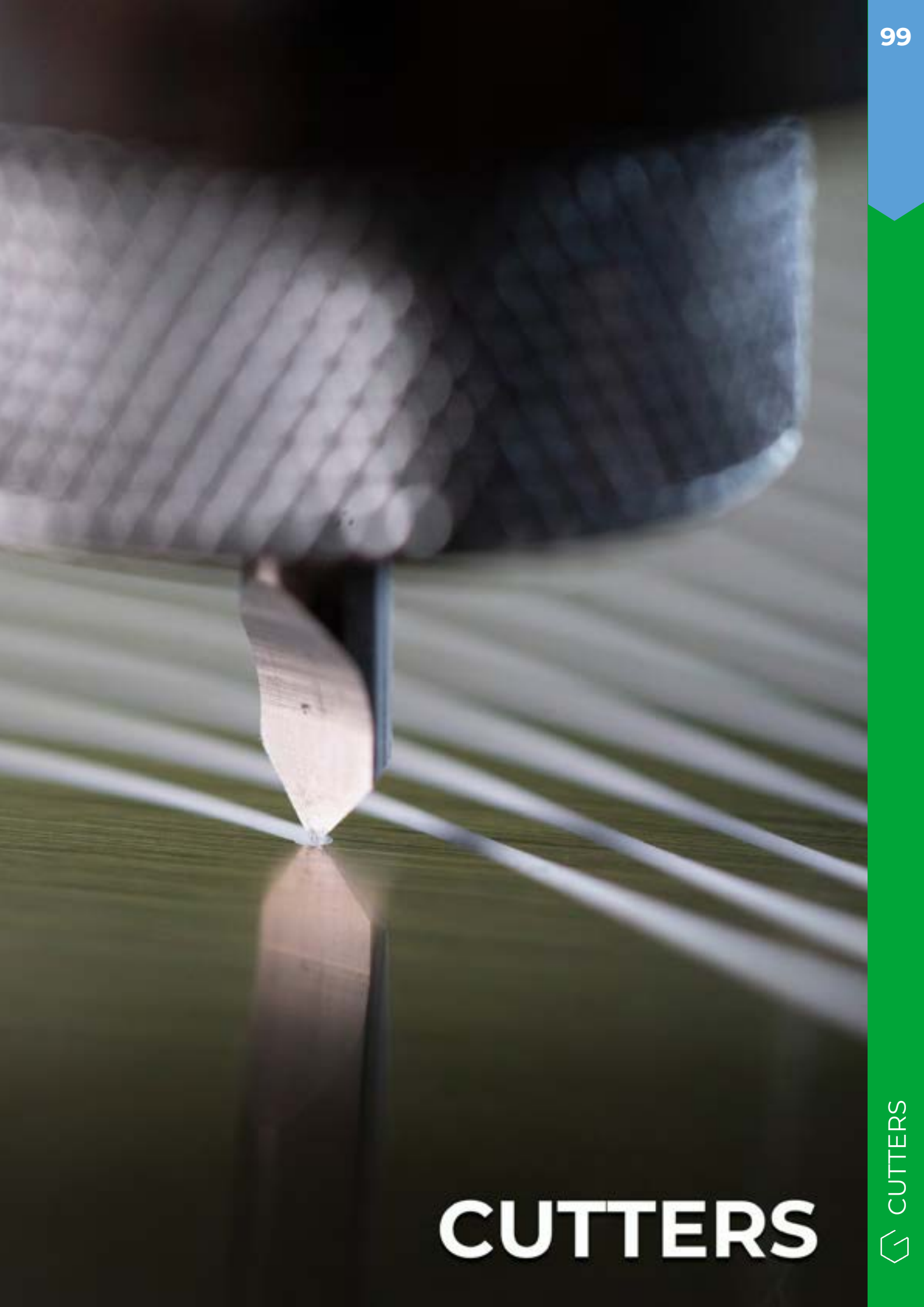
CUTTERS

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)*

*M20 are the machine versions produced until June 2018. M20 V3 are machines produced after this date.

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		

CUTTERS & INSERTS

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

22.5°
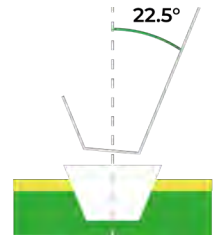
Conical 30.0°

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

30.0°
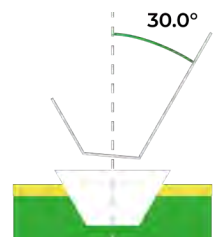
Conical 35.0°

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

35.0°
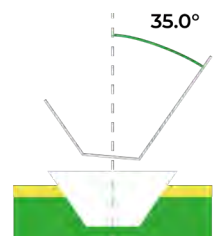
Conical 15.0°

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
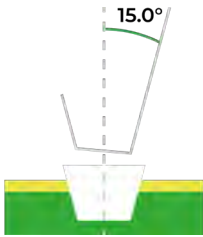
15.0°

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

45.0°
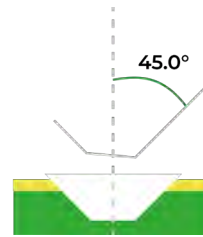
1/4 rounded conical

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

T
40.0°
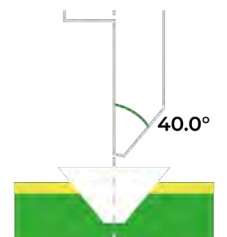
Conical double cone

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	48646
—	0.020"	0.50	48647
—	0.030"	0.75	48648
—	0.040"	1.00	48649
—	0.050"	1.25	48650

T
30.0°
60.0°

CUTTERS & INSERTS
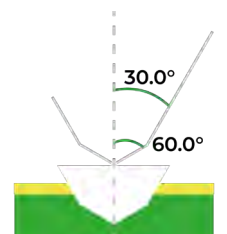
Flat end cylindrical

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
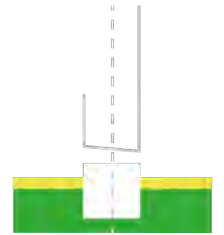
Round end cylindrical

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
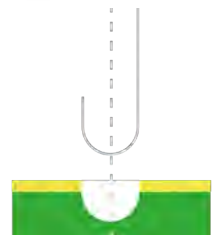
Drilling

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
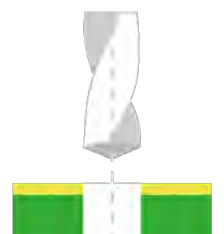
Single lip

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
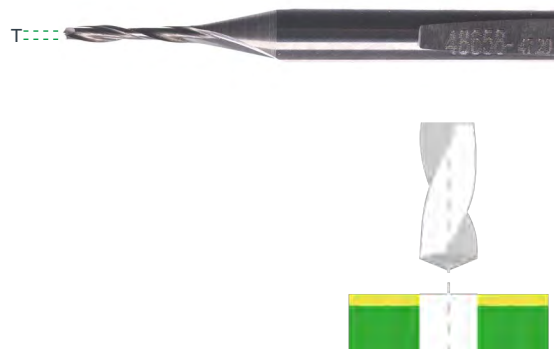
Multilips

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

T	inch	mm	Ref.
	carbide		
▬	0.040''	1.00	48651
▬	0.080''	2.00	48652

Recommended for

Phenolic, epoxy

CUTTERS & INSERTS

Conical 22.5°

HSS or Solid carbide cutting profile designed for signage and personalization 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

22.5°
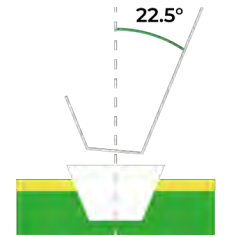
Conical 37.0°

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

37.0°
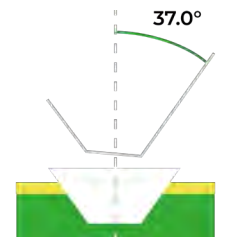
Conical 15.0°

HSS (High Speed Steel) sharpening profile specifically designed for toothbrush plastic handle personalization. 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

15.0°
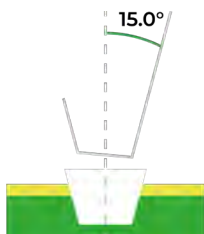
Conical 45.0°

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

45.0°

CUTTERS & INSERTS
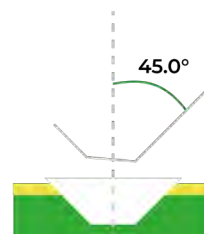
Flat end cylindrical

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

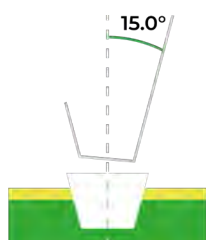Gold, silver, aluminium, brass, phenolic for carbide

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic, gold, silver, aluminium, brass
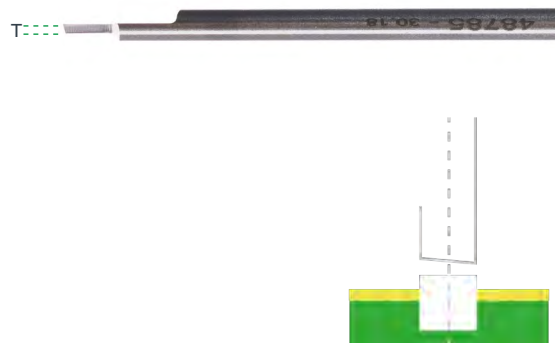
Round end cylindrical

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

CUTTERS & INSERTS

Conical 22.5°

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

T	inch	mm	Ref.
	carbide		
—	0.010"	0.25	48820
—	0.013"	0.32	48821
—	0.020"	0.50	48822
—	0.030"	0.75	48823
—	0.040"	1.00	48824
—	0.050"	1.25	48825
—	0.060"	1.50	48826
—	0.080"	2.00	48827
—	0.120"	3.00	48828
—	0.160"	4.00	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

22.5°

Conical 15.0°

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

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

Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for

Gold, silver, aluminium, brass

15.0°

Conical 45.0°

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

T	inch	mm	Ref.
	carbide		
—	0.010"	0.25	21038

Recommended for

Gold/silver, aluminium, brass, phenolic

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

45.0°

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.

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

Recommended for

Copper, stainless steel & steel

Suitable for

Acrylic, anodised aluminium

23.0°
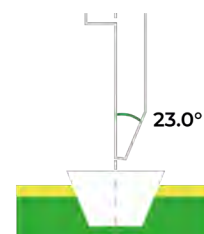
Flat end cylindrical

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.
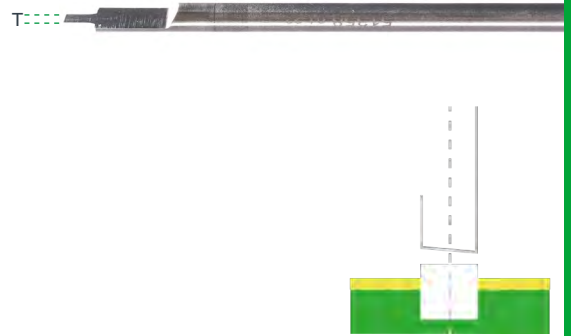
T	inch	mm	Ref.
	HSS steel		
	0.040''	1.00	51355
	0.060''	1.50	51356
	0.080''	2.00	51358
	0.100''	2.50	51359
	0.120''	3.00	51360
	0.160''	4.00	48834

Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for

Gold, silver, aluminium, brass

Round end cylindrical

This cutter profil 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
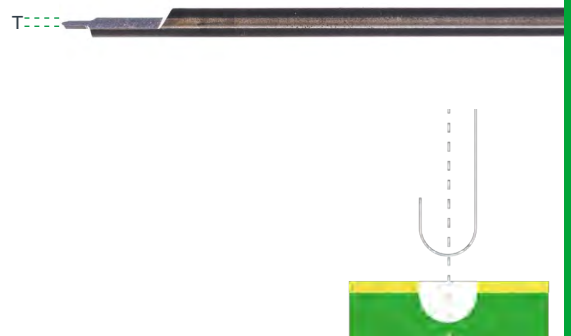
Helical

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

T	inch	mm	Ref.
	carbide		
	0.080''	2.00	80227

Recommended for

Aluminium, brass and laminated

Suitable for

ABS, acrylics

Helical (Braille)

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

T	inch	mm	Ref.
	carbide		
	0.061''	1.550	48766
	0.062''	1.565	48767
	0.063''	1.580	48768

Recommended for

Acrylics

Suitable for

ABS, phenolic, anodised aluminium

CUTTERS & INSERTS

ONECUT 4.36 MM
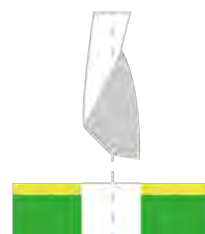
Ready to grind

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.
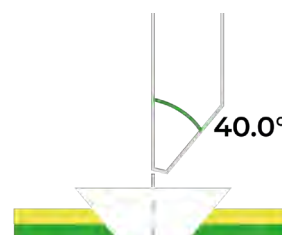

CG30 Grinder

Conical 23.0°

Flat end cylindrical

1/4 rounded conical 40.0°

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

CUTTERS & INSERTS

Conical 23.0°

Solid carbide cutting profile designed for signage and personalization 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
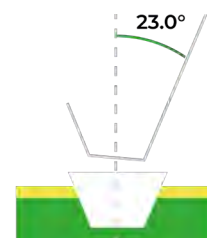
Recommended for

Phenolic

Suitable for

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

23.0°

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

45.0°
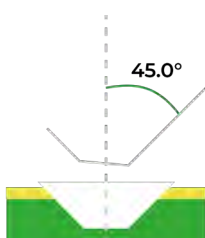
Flat end cylindrical

Solid carbide cutting profile made for the B6 beveller machine.

T	inch	mm	Ref.
	carbide		
▮	0.236"	6.00	48847

Recommended for

Phenolic

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic, aluminium, brass
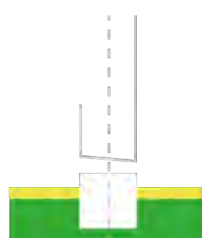
Ready to grind

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

CUTTERS & INSERTS

PERCUT 3.00 MM

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

25.0°
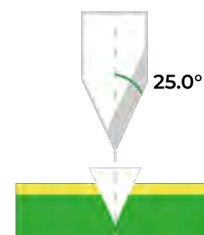
Conical helical

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

30.0°
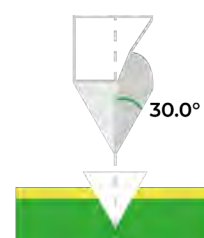
Single lip (plastics)

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)
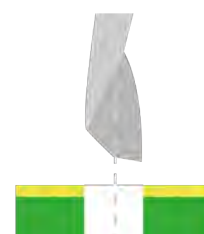
Single lip (metals)

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

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

Recommended for

Aluminium, brass

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

Double lips

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		
—	0.040''	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

Recommended for

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

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic
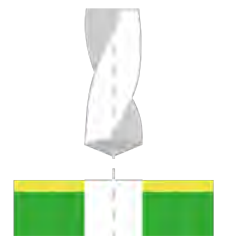
Triple lips (alu/brass)

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. Special CUTINOX treatment for improved tool life.

Recommended for

Steel, stainless steel

Suitable for

Aluminium, brass

T	inch	mm	Tool length	Cutting length	Ref.
			carbide		
—	0.077''	1.95	38 mm (1.496'')	1.95 mm (0.077'')	80341

CUTTERS & INSERTS

Conical with double recess

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

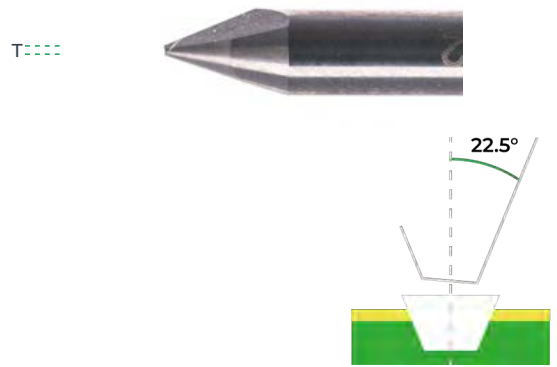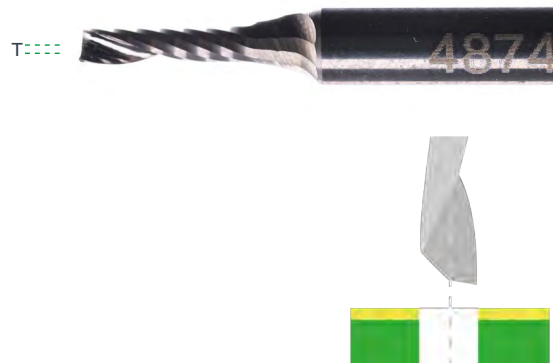| T	inch	mm	Tool length	Cutting length	Ref.
			carbide		
—	0.010"	0.25	50 mm (1.968")	6.00 mm (0.236")	48757
—	0.013"	0.32	50 mm (1.968")	6.00 mm (0.236")	48758
—	0.020"	0.50	50 mm (1.968")	6.00 mm (0.236")	48759
—	0.030"	0.75	50 mm (1.968")	6.00 mm (0.236")	48760
—	0.050"	1.25	50 mm (1.968")	6.00 mm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

Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic, phenolic

Suitable for

Aluminium, brass, gold, silver

T

22.5°

Single lip (plastics)

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

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

Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for

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

T

Single lip (metals)

Solid carbide single lip upward spiral or 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")	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

Recommended for

Aluminium, brass

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

T

CUTTERS & INSERTS

Double lips (plastics)

Solid carbide double lips upward spiral for cutting and milling into plastics & non ferrous metals with straight edges.
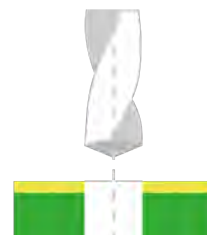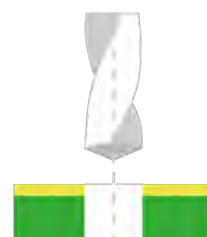
T	inch	mm	Tool length	Cutting length	Ref.
			carbide		
🟩	0.160"	4.00	50 mm (1.968")	12.00 mm (0.472")	23072

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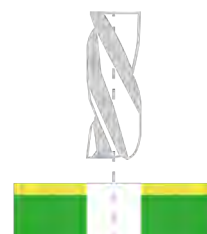
T	inch	mm	Tool length	Cutting length	Ref.
			carbide		
🟩	0.080"	2.00	25 mm (0.984")	4.00 mm (0.160")	23079

Recommended for

Aluminium

Suitable for

Brass

CUTTERS & INSERTS

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.
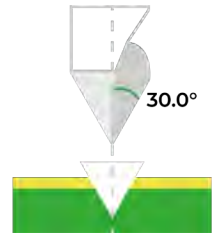
T	inch	mm	Tool length	Ref.
			carbide	
—	0.005''	0.15	57 mm (2.244'')	23091

Recommended for

Aluminium, brass

Suitable for

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

30.0°

Conical with double recess

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

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
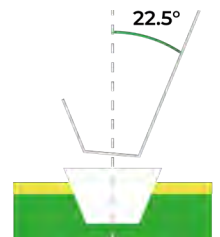
22.5°

Single lip

Solid carbide single lip upward spiral for cutting and milling into plastics & non ferrous metals with straight edges.
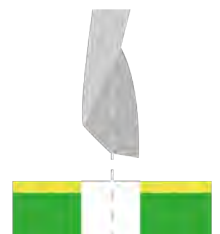
T	inch	mm	Tool length	Cutting length	Ref.
			carbide		
▪	0.080''	2.00	50 mm (1.968'')	7.00 mm (0.275'')	48748
▪	0.120''	3.00	50 mm (1.968'')	10.00 mm (0.400'')	48749
▪	0.160''	4.00	50 mm (1.968'')	12.00 mm (0.472'')	48750
▪	0.236''	6.00	50 mm (1.968'')	15.00 mm (0.590'')	48751

Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for

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

CUTTERS & INSERTS

Double lips

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

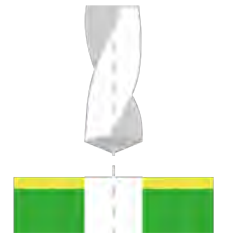| T	inch	mm	Tool length	Cutting length	Ref.
			carbide		
	0.080"	2.00	50 mm (1.968")	6.00 mm (0.236")	48772
	0.120"	3.00	50 mm (1.968")	6.00 mm (0.236")	70610
	0.160"	4.00	50 mm (1.968")	8.00 mm (0.315")	70614

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.
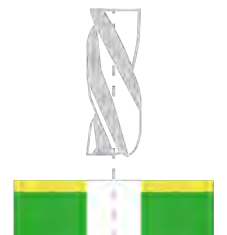
T	inch	mm	Tool length	Cutting length	Ref.
			carbide		
	0.080"	2.00	50 mm (1.968")	4.00 mm (0.160")	71765
	0.120"	3.00	50 mm (1.968")	6.00 mm (0.236")	71766
	0.160"	4.00	50 mm (1.968")	8.00 mm (0.315")	71767

Recommended for

Steel, stainless steel and other ferrous metals
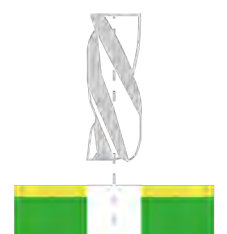
Suitable for

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

CUTTERS & INSERTS

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

CUTTERS & INSERTS

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 personalization and metallic parts identification.

Recommended for

Aluminium, brass, nickeled, 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 personalization and mechanical part identification in aluminum, brass, nickeled metals, steel and stainless steel. Reference 84975 has a reduced diameter specially designed for engraving watch backgrounds.

Recommended for

Aluminum, 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

34094

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
—	0.120''	3.10	160 mm (6.299'')	20933

Conical non-rotative 130°

Onecut 6.35 mm

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

Recommended for

Precious, ferrous, non ferrous metals

Suitable for

Glass, crystal, mirror

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, nickeled 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

CUTTERS & INSERTS

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

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.

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.

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

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.

CUTTERS & INSERTS

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
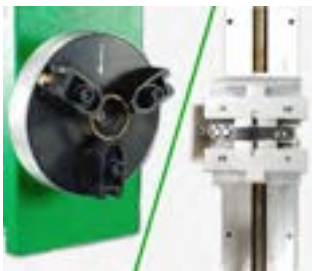
JEWEL KIT
Ref. 81993

Machine compatibility:
M20 v3 Pen

Includes a chuck for
rings up to 27 mm (1.06'')
diameter and a jewel jig
(Ref. 28192).
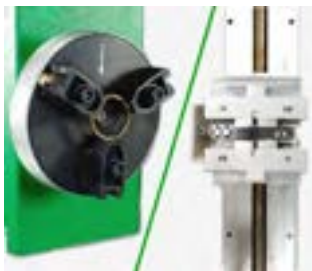
JEWEL KIT
Ref. 82855

Machine compatibility:
M20 v3

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.

MACHINE ACCESSORIES

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.

MACHINE ACCESSORIES

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.
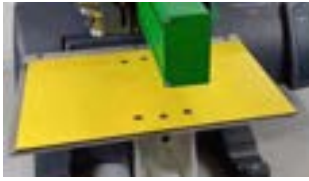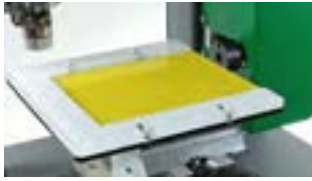
Gravogrip™ table M20

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
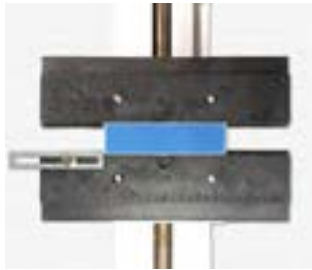
MEDIUM PLASTIC JIGS
Ref. 27215

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'').

MACHINE ACCESSORIES

Jewellery

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.
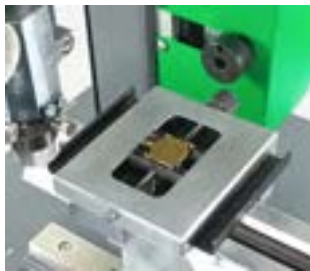
STANDARD JEWELLERY JIGS
Ref. 28192

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.
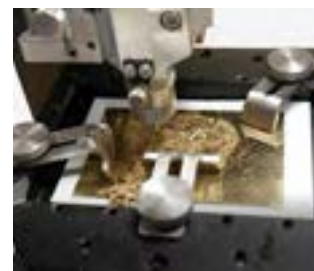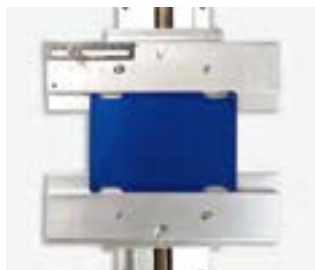
CUTTING JIGS
Ref. 84897

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.

MACHINE ACCESSORIES

Funerary

FUNERARY JIGS
Ref. 47697

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

l = 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'')			20130
Nose 1.5 mm		Recommended for Metallex™	0.32 mm (0.013'')	22.5°	IM3, M20 v3, M20, M40, IS200, IS400, ISx000	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°		20936
Nose 4.7 mm		For fonts up to 60 mm (2.36''). Compact for intaglio engraving	3.00 mm (0.120'')		IM3, M20 v3, M20, M40, IS200, IS400, ISx000	12215
Nose 7.0 mm		For large fonts	3.75 mm (0.015'')	All tools		20937
Nose large diameter		For very large fonts or large flat tint on plastic	3.75 mm (0.015'')			20960

PRODUCTIVITY NOSES

		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 for standard spindle		Supplied with suction hose and 3 noses: 21674/21672/21673	N/A	N/A		23657
Extraction noses kit for spindle collet		Supplied with suction hose and 3 noses: 21674/21672/21673	N/A	N/A		23658

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
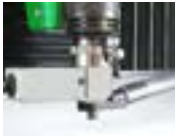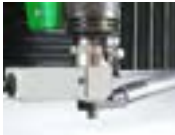
		Key features	Max. truncation	Recommended max. tool cone	Machine compatibility	Ref.
Swivel vacuum nose 2.50 mm		To perfectly follow the profile of the part on hard materials. Small font.	0.75 mm (0.030")		IS400, ISx000	64189
Swivel vacuum nose 5.00 mm		To perfectly follow the profile of the part on hard materials. Medium font.	1.50 mm (0.059")	All tools		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

MACHINE ACCESSORIES

FRAGILE ITEM NOSES

		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

These spindles need to be ordered with additional cables:
IS400: **Ref. 47746**
ISx000: **Ref. 47744**

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
					Japan plug	85460

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, aluminium, 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
R : 3.2 mm (1/8")

Ref. 14501
R : 6.3 mm (1/4")

Ref. 14502
R : 7.9 mm (5/16")

Ref. 14508
R : 9.5 mm (3/8")

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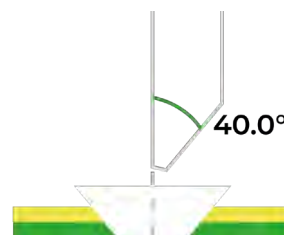

CG30 Grinder

23.0°
Conical
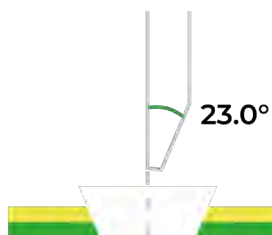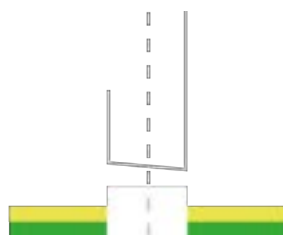
Flat end cylindrical

40.0°
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 resharpen.

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

AUXILIARIES

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 recommandations.

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

CNC TABLES

IS200
Small signage and identification engraving machine

IS400 / IS400 VOLUME
One of a kind metal engraving machine

ISx000
The large format CNC engraving machine

	IS200	IS400 / IS400 VOLUME	ISx000
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)	**IS6000:** 610 x 410 mm (24 x 16 in) **IS7000:** 610 x 815 mm (24 x 32 in) **IS8000:** 610 x 1220 mm (24 x 48 in)
Spindle power	20 W	90 W (optional spindle: 150 W)	90 - 200 W (optional spindle: 150, 750, 1k W)
Max. object height	30 mm (1.2 in)	**IS400:** 105 mm (4 in) **IS400 Volume:** 400 mm (15.75 in)	80 mm (3 in)

ENGRAVING STATION

IM3
The iconic pantograph by Gravotech

M10 JEWEL
Compact ring and bracelet engraving machine

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

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

	IM3	M10 JEWEL	M20	M40/M40GIFT
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	50 W	-	30 W	30 W
Max. object height	50 mm (2 in)	ø 12.5 - 80 mm (0.5 x 3.15 in)	100 mm (4 in)	110 mm (4.3 in)
Dimensions (L x W x H)	580 x 510 x 280 mm (22.8 x 20 x 11 in)	230 x 293 x 290 mm (9 x 11.5 x 11.4 in)	375 x 350 x 360 mm (14.8 x 14 x 14.2 in)	550 x 510 x 320 mm (27.7 x 20 x 12.6 in)

APPLICATION SCOPE :

● Identification ● Personalization ● Signage ● Creative ● Manufacturing
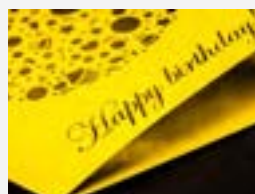
LASER TABLES

	LS100	LS100EX	LS900
	CO2 laser engraver for signage, creative cutting, and personalization	The signage and small series laser engraving machine	The large laser engraver that can do everything
Application scope	●●●	●●●	●●●
Laser source	CO2	CO2, Fiber	CO2, Fiber, Edge
Power (W)	25 - 30 - 40 - 60	**CO2: 25 - 30 - 40 - 60** **CO2 Energy: 25** **Fiber: 20 - 30**	**CO2:** 40 - 60 - 80 **Fiber:** 20 - 30 - 50 **Edge: (CO2:** 40 / **Fiber:** 20 - 30 - 50)
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)
Lenses (in)	1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0	1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0	1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0
Max. object height	145 mm (5.7 in)	145 mm (5.7 in)	250 mm (9.8 in)

LASER STATIONS

	WELASE™	LW2	LW3
	Small laser engraving station	Fully automated laser marking station	Fully automated high volume industrial laser station
Application scope	●●	●●	●●●
Laser source	Fiber, Hybrid, Green, CO2	Fiber, Hybrid, Green	Fiber, Hybrid, Green
Use rate	Adapted for small to medium batches	Fully automatic Adapted for high use rate	Adapted for high production rates and large parts
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)	Up to 875 x 300 mm (34 x 12 in)
Max object Height	**Fiber, Hybrid, Green:** 100 mm (4 in) **CO2:** 180 mm (7 in)	Up to 322 mm (12.7 in)	Up to 628 mm (24.72 in)
Max object Weigth	3 kg (6.6 lbs)	25 kg (55 lbs)	50 kg (110.23 lbs)

RANGE OF INTEGRATED EXHAUST DEVICES

	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

INTEGRABLE DOT PEEN

XF510p
The fastest pneumatic dot peen marking machine on the market

XF510m
The precise and consistent electromagnetic dot peen marking machine

XF530
Deep and indelible dot peen marking

	XF510p	XF510m	XF530
Application scope	●	●	●
Technology	Dot peen Pneumatic	Dot peen Electromagnetic	Dot peen Pneumatic or Electromagnetic
Main advantage	Speed	2D codes	Deep marking
Marking area max. (L x H)	**Cp:** 50 x 20 mm (2 x 0.8 in), **Sp:** 100 x 80 mm (4 x 3.15 in), **Dp:** 200 x 80 mm (7.9 x 3.15 in)	**Cm:** 50 x 20 mm (2 x 0.8 in), **Sm:** 100 x 80 mm (4 x 3.15 in), **Dm:** 200 x 80 mm (7.9 x 3.15 in)	200 x 50 mm (7.9 x 2 in)
Material hardness (HRC)	< 62	< 62	< 62

INTEGRABLE SCRIBING

XF510r
The quiet metal marking machine

SV530
The VIN scribing marking machine

DOT PEEN STATION

IMPACT
Benchtop dot peen marking station

	XF510r	SV530
Application scope	●	●
Technology	Scribing	Scribing
Main advantage	Quiet	Deep marking
Marking area max. (L x H)	**Cr:** 40 x 50 mm (1.6 x 2 in), **Sr:** 80 x 50 mm (3.15 x 2 in), **Dr:** 160 x 50 mm (6.3 x 2 in)	120 x 40 mm (4.72 x 1.6 in)
Material hardness (HRC)	< 62	< 62

	IMPACT
Application scope	●
Technology	Dot peen, Pneumatic or Electromagnetic
Software	Integrated traceability software with colour touchscreen
Marking area max. (L x H)	100 x 120 mm (4 x 4.7 in)
Z axis stroke	300 mm (11.8 in)
Z axis type	Manual or Motorized & programmable

CONTROL UNIT

XCOM

CONNECTED TOUCH-SCREEN CONTROLLER

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

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 **MOPA*:** 20 - 30 - 60	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.			

LASER PROTECTION NOSE

MINI-INLINE

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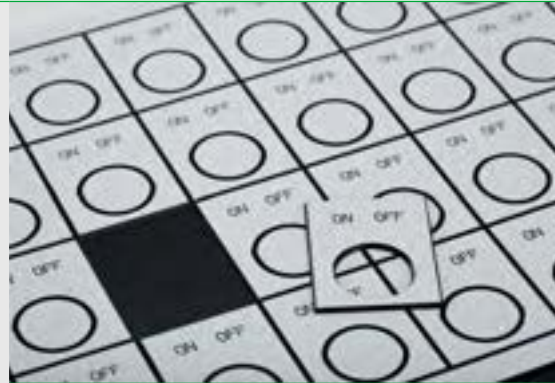
APPLICATION SCOPE :

● Identification   ● Personalization   ● Signage   ● Creative   ● Manufacturing

GRAVOSTYLE

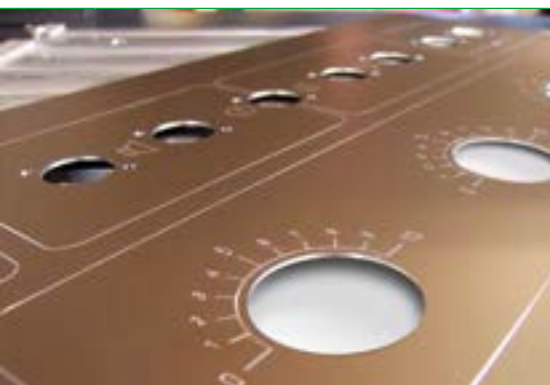|	DISCOVERY	DISCOVERY MAX
	Laser + Rotary	Laser + Rotary
	Go hybrid. Drive laser & rotary technology.	**Productivity package**
Features	· Matrix and variable lists · Import of vector files (DXF, EPS, HPGL…) and images (BMP, JPG, PNG and TIF ..) · Plate Point & Shoot: makes it possible to define the engraving 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 <u>Personalization pack:</u> · 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

THE UNIQUE SOFTWARE FOR LASER AND ROTARY ENGRAVING MACHINES

INDUSTRY	GRAPHIC	3D
Laser + Rotary	Laser + Rotary	Laser + Rotary
Power, precision & productivity	**Unleash creativity**	**Take your engraving to a new dimension**
· Dials and scales · Scripting (macro function capabilities) · Long Plate management · Measurement tools · Batch import · External data import (CSV, TXT, Excel®, SQL, ODBC…) · Shape duplication tools	· Nesting (material optimisation) · CAM module (advanced tool management) · Powerful on-screen simulation and rendering · Advanced braille toolpath management · Print & Cut module · LED positioning function · Photo lasering optimisation function · Moulds and dies · Shading (3D effect)	· Surface creation and manipulation tools · Styl'Art 3D modeling module · 3D texturing · Sculpture tool · 3D CAM advanced toolpaths · 3D visualisation tools · Includes all 2.5D functions
· Barcodes, Datamatrix, QR Code® and UID - unique identification with variables management	· 2.5D toolpath for jewellery/metal stamps and intaglio for signage · Laser toolpath management for deep marking	
· Rating plates · Control panels · Part identification & traceability · Circuit boards · Linear and 2D barcodes · Paper and cardboard cutouts with laser	· Advanced photo lasering · Model making · Marquetry · Hot stamping · Award design and production · Printed signage cutout · Signs conception	· 3D signage · Displays · Embossing/debossing dies · Food molds · Furniture decoration · Models & prototypes · Award & recognition · Commemorative

Learn more :

GRAVOSTYLE™ SOFTWARE

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.

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.

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.

ENGRAVING MATERIALS (NO LASER CUTTING)

	Power	Speed	Passes	Focus	Refocus	Air	Type	Dpi	Thickness	Comments
Gravoply™ 2	10%	100%	1	-	Before	no	Vector	500	-	
	50%	100%	1	-	Before	no	Raster	500	-	
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	-	
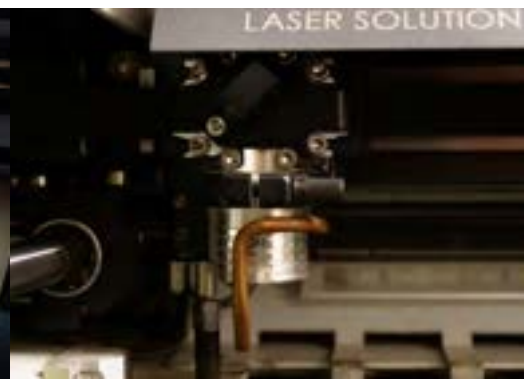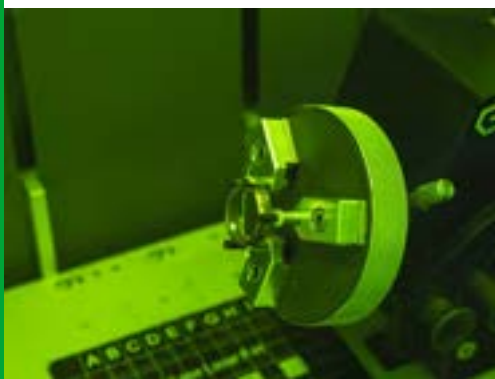
ENGRAVING AND CUTTING MATERIALS

	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	-	
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")	
Ecocut Laser	70%	40%	1	-	Before	yes	Cutting	500	0.5 mm (.020")	
	80%	30%	1	-	Before	yes	Cutting	500	0.8 mm (1/32")	
	100%	28%	1	-	Before	yes	Cutting	500	1.3 mm (.050")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6 mm (1/16")	
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")	
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")	
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")	
Gravostrat™	50%	60%	1	-	Before	no	Vector	500	-	
	100%	60%	1	-	Before	no	Raster	500	-	
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")	
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")	

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.

- Subsidiaries
- Channel partners
- Production platforms

Algeria	Denmark	Korea	Slovenia
Argentina	Ecuador	Luxembourg	South Africa
Australia	Egypt	Malaysia	Spain
Austria	Finland	Mexico	Sweden
Benelux	France	Norway	Switzerland
Bolivia	Germany	Peru	Thailand
Brazil	Greece	Philippines	Turkey
Bulgaria	Hungary	Poland	United Arab Emirates
Canada	India	Portugal	United Kingdom
Chile	Indonesia	Qatar	U.S.A
China	Ireland	Romania	Venezuela
Colombia	Israel	Saudi Arabia	Vietnam
Croatia	Italy	Serbia	
Czech Republic	Japan	Singapore	

Find our nearest location!

GRAVOTECH
EXPRESSION OF THINGS

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