



GRAVOTECH

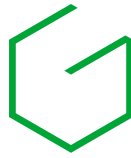
EXPRESSION OF THINGS

ENGRAVING

SOURCE BOOK

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

V6.0



GRAVOTECH

EXPRESSION OF THINGS

Gravotech, the Expression of Things : a culture of excellence

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

This success is built on three fundamentals:

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

The Gravotech difference is founded on:

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

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

The comprehensive Gravotech product line includes:

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

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

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

Watch our video!



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Gravotech engraving materials

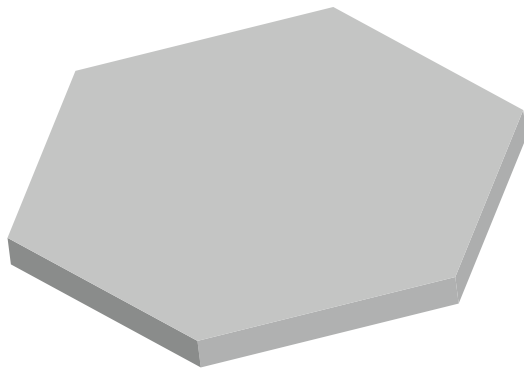
WHAT IS AN ENGRAVING MATERIAL?

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

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

1-PLY

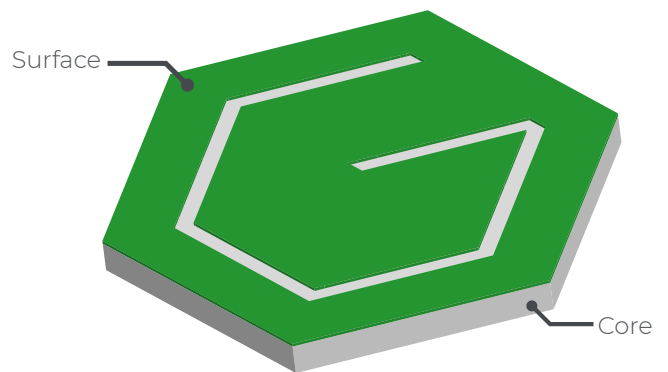
For cutting, no engraving



1 layer, 1 colour

2-PLY

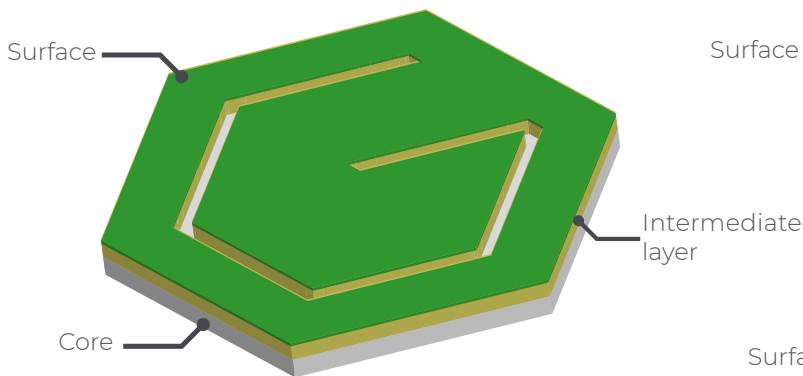
The most standard design



2 layers, 2 colours

3-PLY

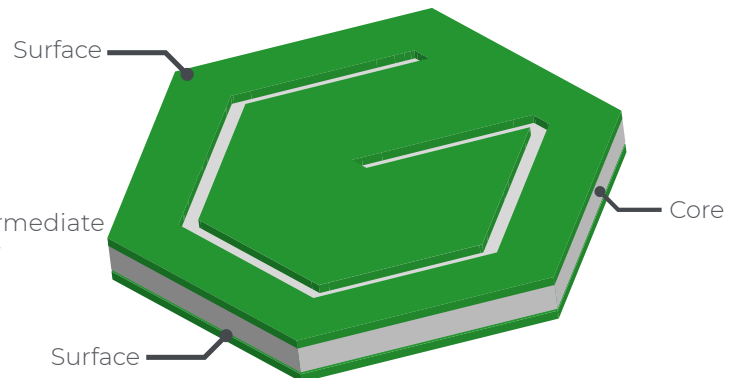
An exception dedicated to safety signage



3 layers, 3 colours

DOUBLE-SIDED

Can be engraved on both sides

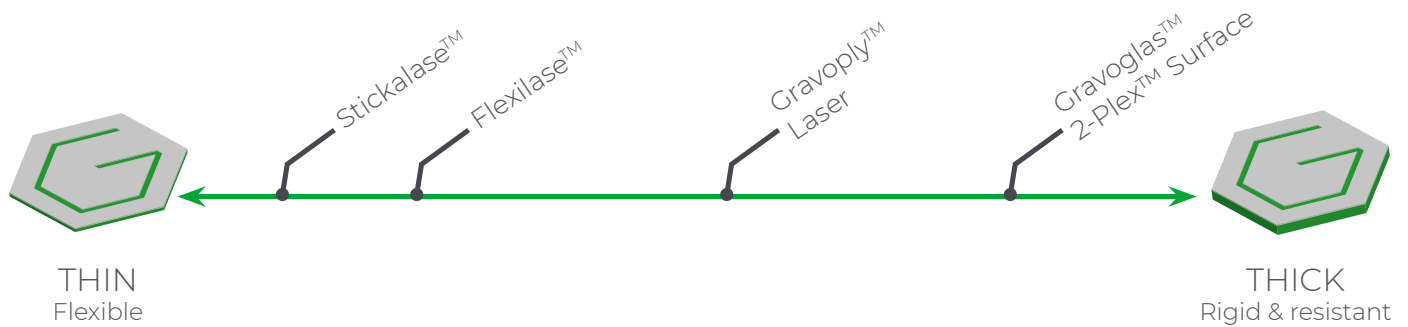


3 layers, 2 colours on each side

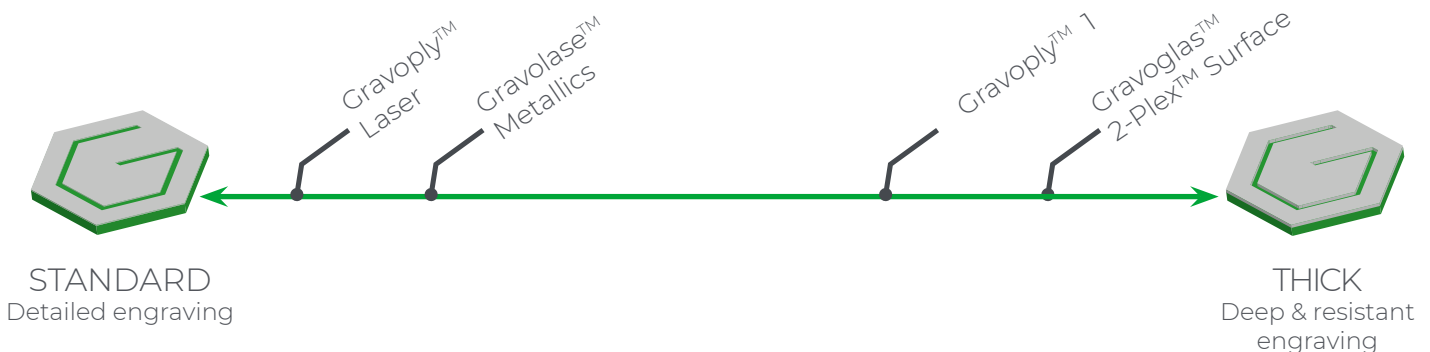
CONSTRUCTION

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

CORE THICKNESS



SURFACE THICKNESS



CORE COMPOSITION

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

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

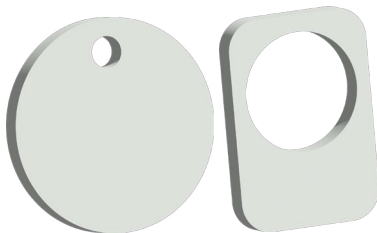
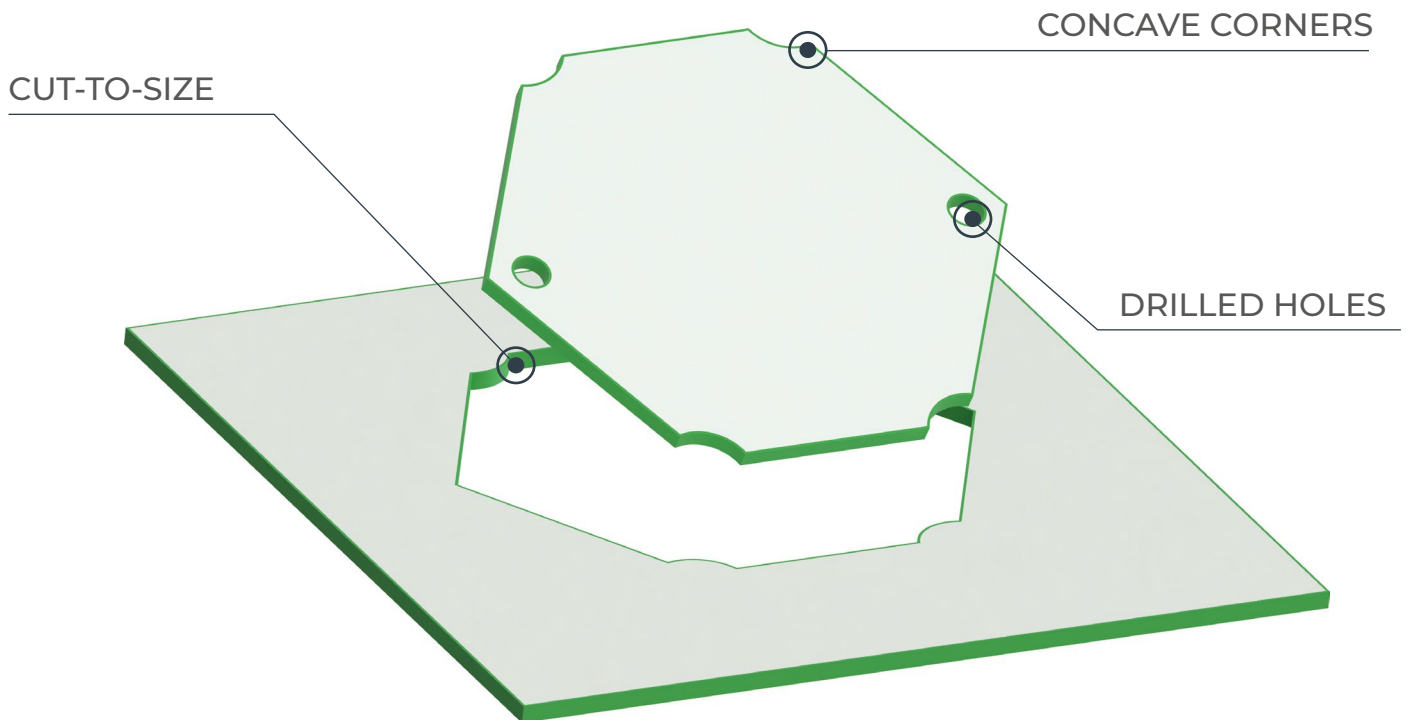
They can be used with laser and mechanical machines.

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

Dedicated to indoor use, they are usually rotary cut.

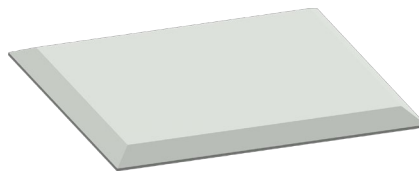
Custom fabrication services

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



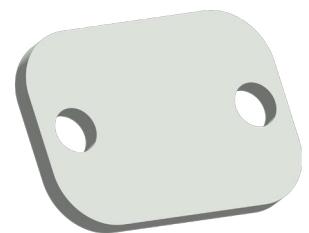
SHAPES

Custom fabricated shapes made to your specifications on demand.



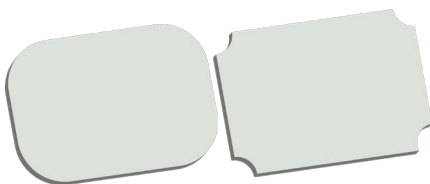
BEVELLING

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



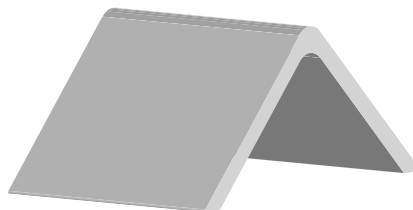
DRILLED HOLES

To accommodate your mounting needs in plastic and metal.



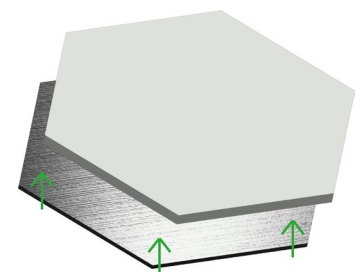
ROUNDED / CONCAVE CORNERS

We offer a wide selection of different radius for corners.



BENDING

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



BACKING

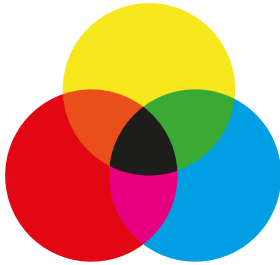
Adhesive: 467MP or 468MP available depending on the roughness of the substrate.

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

Custom materials on demand

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

COLOUR MIXING



Gravotech provides any colours combination!

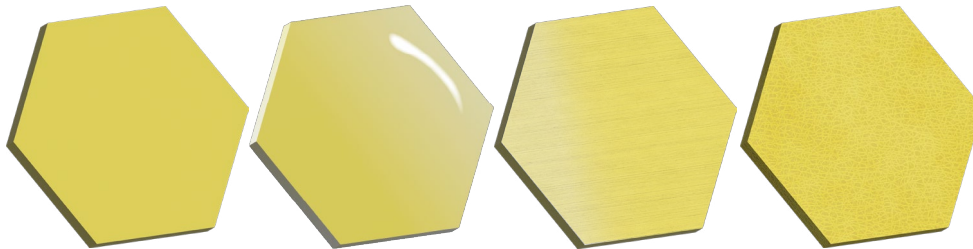
Mix any surface colour with any of our core colours. You can also provide us with a RAL or PANTONE® code to better match your needs.

SPECIFIC THICKNESS

Your application requires a specific material thickness?

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

SURFACE FINISH



Matte

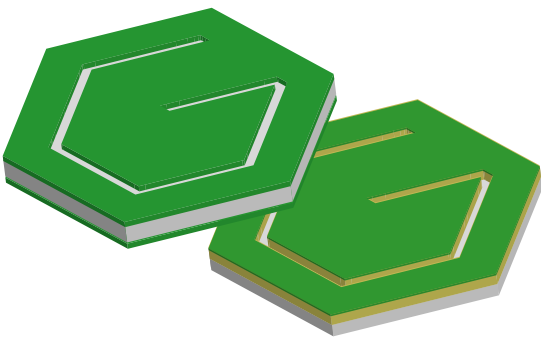
Glossy

Satin

Textured

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

DOUBLE-SIDED AND 3-PLY MATERIAL



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

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

Quotation

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

Lead-time

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

Return policy

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

Communication tools

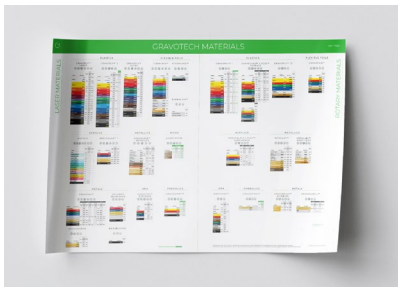
Gravotech offers a multitude of marketing tools to help you select the right engraving material for your needs and promote your business.



ENGRAVING SOURCE BOOK & E-CATALOG

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

Engraving Source Book: Ref. 86586



ENGRAVING MATERIALS POSTER

Wall poster with overview of our whole range of materials.

Ref. 71938



«SWATCHY» SAMPLES

Physical samples of Gravotech's key materials.

Gravoply™ Laser: Ref. 86494
 Gravalase™ Metallics: Ref. 86497
 Flexilase™: Ref. 86495
 Acrylic: Ref. 86493
 Laser Wood: Ref. 86496



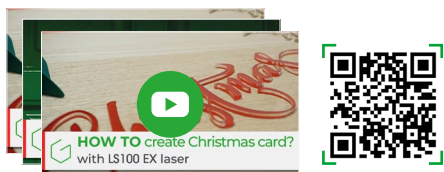
TECHNICAL & SAFETY DATA SHEETS

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



Our YouTube videos & playlists

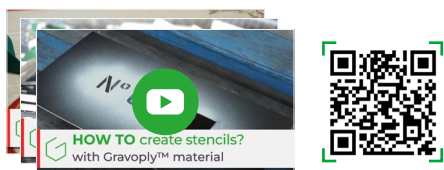
Discover our consumables videos on our YouTube channel.



GRAVOGLAS™ 1



GRAVOPLY™ ULTRA



GRAVOPLY™ LASER



LASER WOOD



ACRYLIC



CONSUMABLES

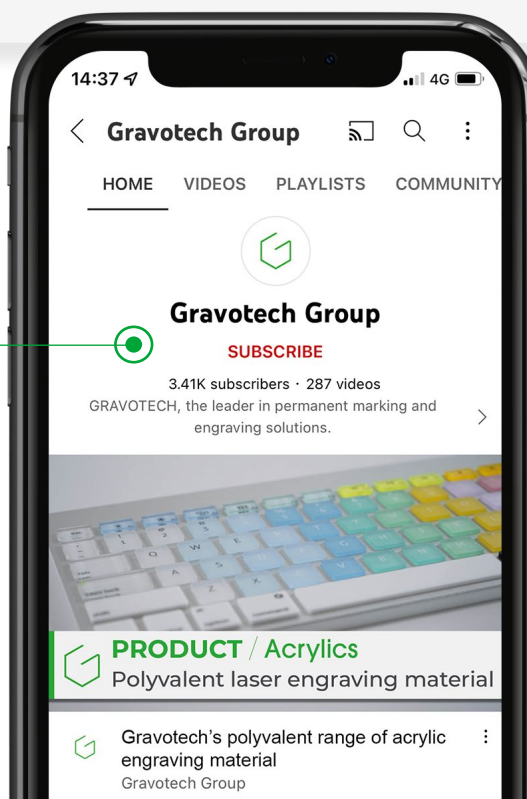


OUR LATEST CONSUMABLES VIDEOS

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



Subscribe to our YouTube channel to see more !





GRAVOTECH
EXPRESSION OF THINGS

SELECTION GUIDE

LASER MATERIALS

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



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) | -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) | |
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Symbols

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

TECHNOLOGY



LASER ENGRAVING

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



ROTARY ENGRAVING

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



UV PRINTING

This material supports UV printing on its surface.

ENGRAVING SIDE



SURFACE ENGRAVING

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



SUBSURFACE ENGRAVING

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

USE



OUTDOOR USE

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



INDOOR USE

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



LASER MATERIALS

GRAVOPLY™ LASER

Flexibility and performance for indoor and outdoor applications



Watch our videos!

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

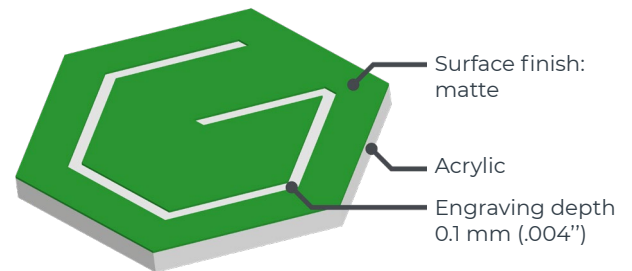


610 x 610 mm
24 x 24"

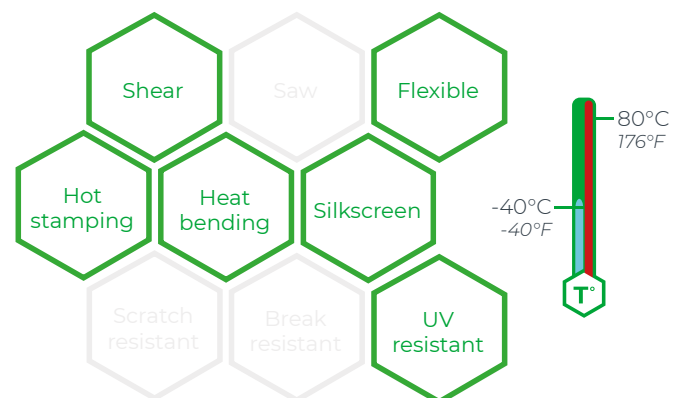


610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



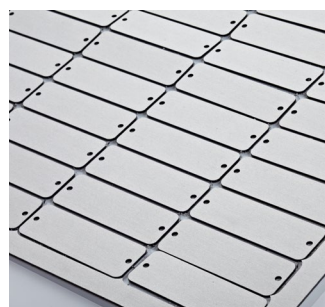
MATERIAL CAPABILITIES



APPLICATIONS



Outdoor signage



Small labels and plates



Industrial signage



Architectural signage



GRAVOPLY™ ULTRA

Effectiveness, productivity, precision and durability

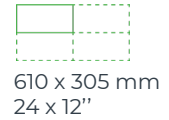
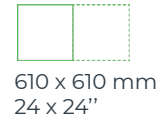
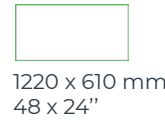


Watch our videos!

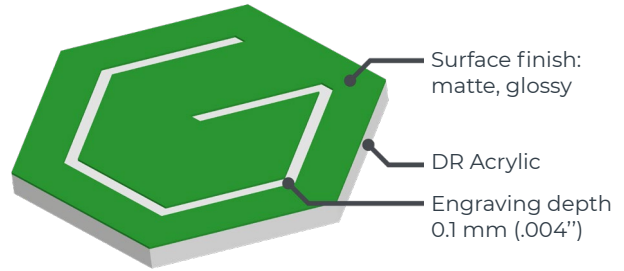
| Surface colour | Core colour | Thickness | |
|-----------------|-------------|-----------------|----------------|
| | | 0.5 mm (0.020") | 1.6 mm (1/16") |
| white | black | 18946 | 18984 |
| yellow | black | 18955 | 18993 |
| orange | white | | 19000 |
| orange | black | | 29499 |
| red | white | 18949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

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

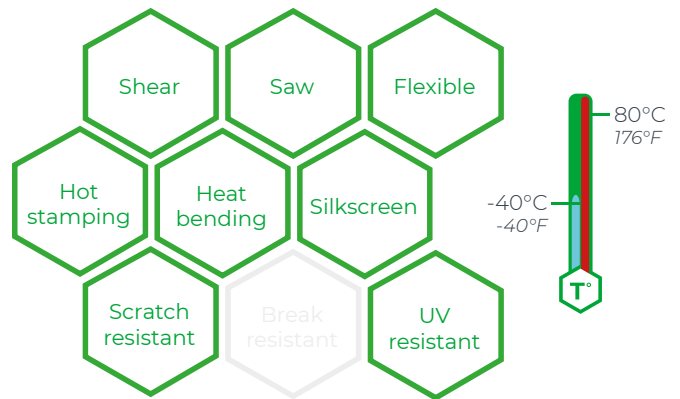
AVAILABLE SHEET SIZES



MATERIAL SPECIFICITIES

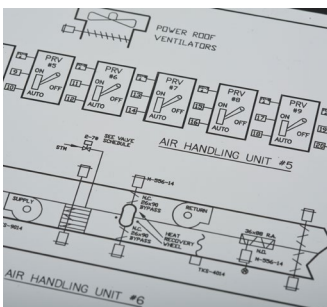


MATERIAL CAPABILITIES



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

APPLICATIONS



Industrial synoptic



Information label



Outdoor signage



Small plate

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



GRAVOPLY™ 2

The affordable material for small plates and labels

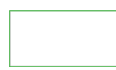
| Surface colour | Core colour | Thickness | | | |
|----------------|-------------|----------------|----------------|------------------|----------------|
| | | 0.8 mm (1/32") | 1.5 mm (1/16") | 1.5 mm (1/16") * | 2.4 mm (3/32") |
| white | red | | 21928 | | |
| white | azure blue | | 21908 | | |
| white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

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

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

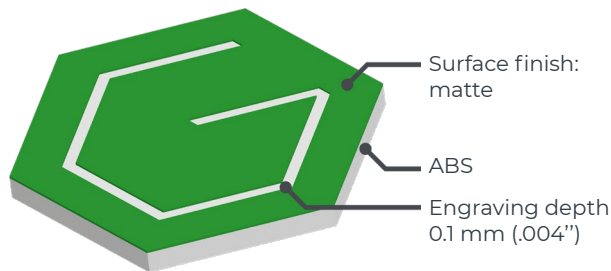


610 x 610 mm
24 x 24"

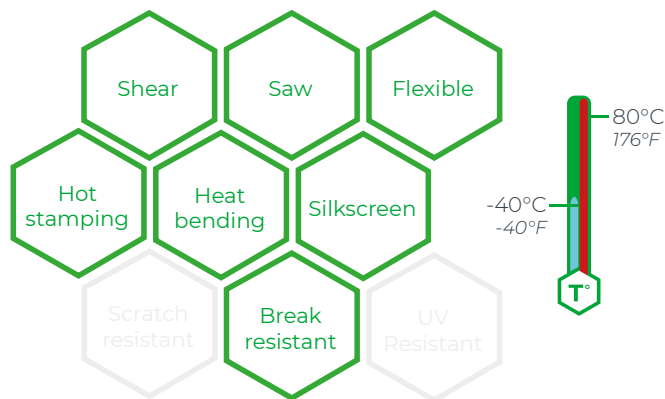


610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



* References in green are double-sided

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

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

APPLICATIONS



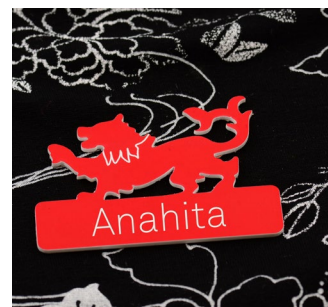
Braille signage



Indoor signage



Small labels and plates



Badges

GRAVOGLAS™ 1

The outdoor acrylic material for upscale architectural signage



Watch our videos!

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

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

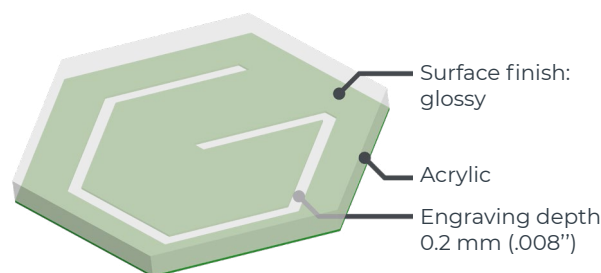


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



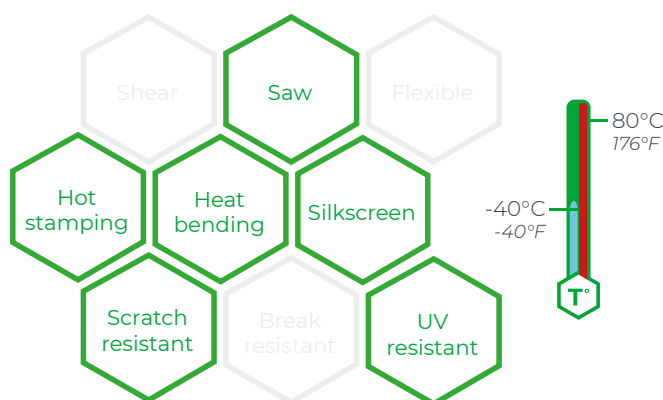
COMPLEMENTARY PRODUCTS

See page 82



Spacers

MATERIAL CAPABILITIES



APPLICATIONS



Visual communication



Stencil



Professional plates



Measure tools



ACRYLIC - CLEAR

Let your creativity flow!

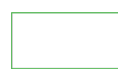


Watch our videos!

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

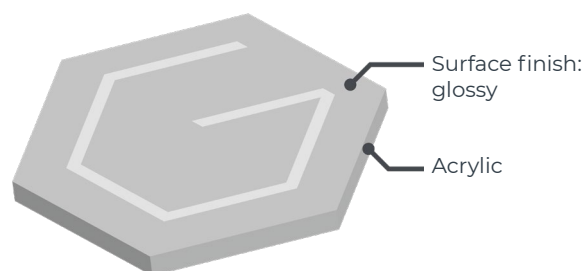


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



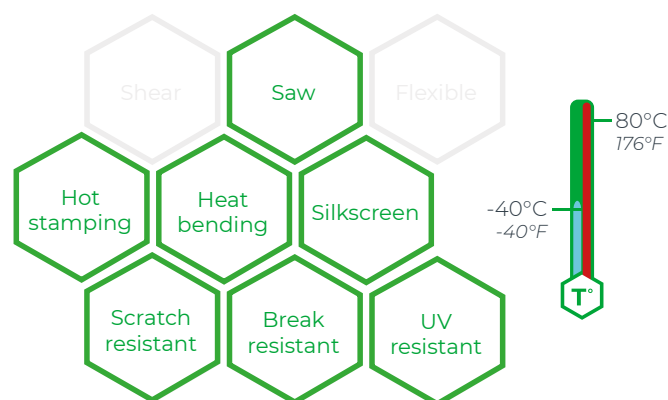
COMPLEMENTARY PRODUCTS

See page 82

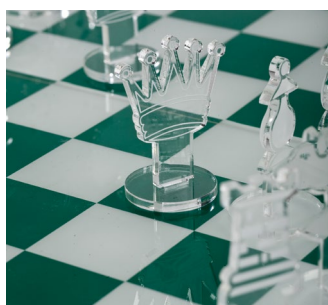


Spacers

MATERIAL CAPABILITIES



APPLICATIONS



Gift and decoration



Promotional items



Light and illumination



Trophy and awards

ACRYLIC - FLUORESCENT

Let your creativity flow!



Watch our videos!

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

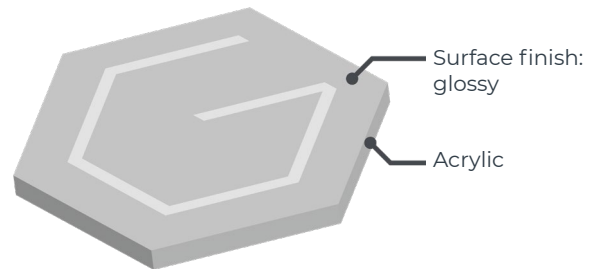


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 82



Spacers

See page 80



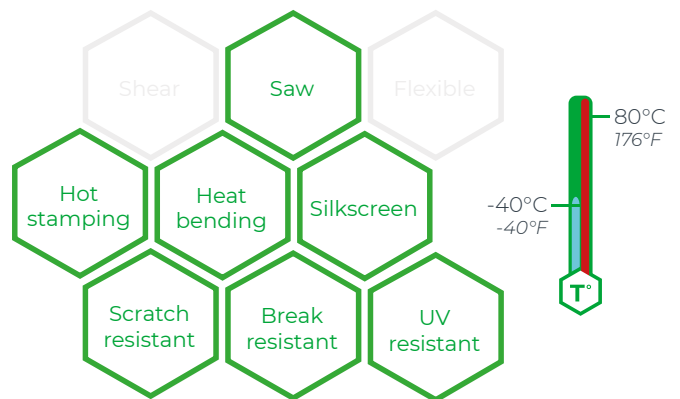
Ball chains

See page 81

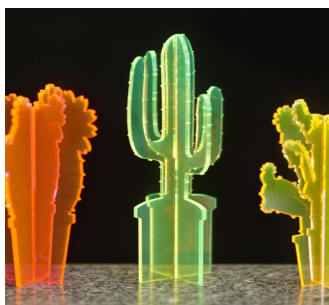


Nickel-plated steel ring

MATERIAL CAPABILITIES



APPLICATIONS



Decoration



Promotional items



Gifts



Display

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



ACRYLIC - FROSTED

Let your creativity flow!



Watch our videos!

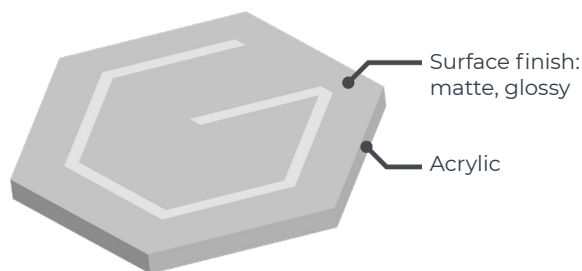
| Core colour | Thickness |
|---------------------|---------------|
| | 3.0 mm (1/8") |
| frosted white | 83431 |
| frosted light blue | 83434 |
| frosted sky blue | 83438 |
| frosted blue ocean | 83435 |
| frosted blue lagoon | 83437 |
| frosted green | 83436 |
| frosted yellow | 83432 |
| frosted pink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

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

AVAILABLE SHEET SIZES



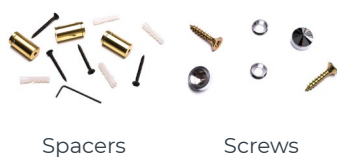
MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 82

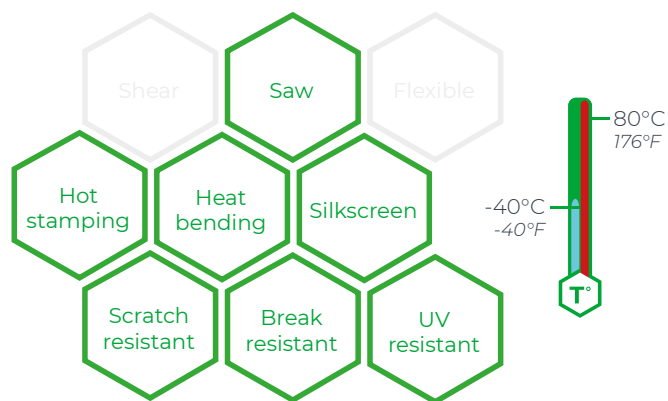
See page 82



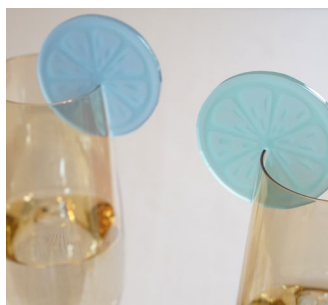
Spacers

Screws

MATERIAL CAPABILITIES



APPLICATIONS



Decoration



Gifts and promotional items



Decoration



Creative signage



ACRYLIC - OPAQUE

Let your creativity flow!



Watch our videos!

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

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

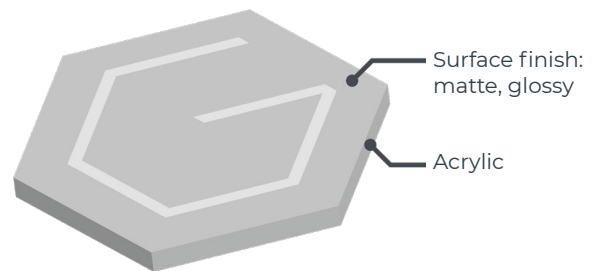


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



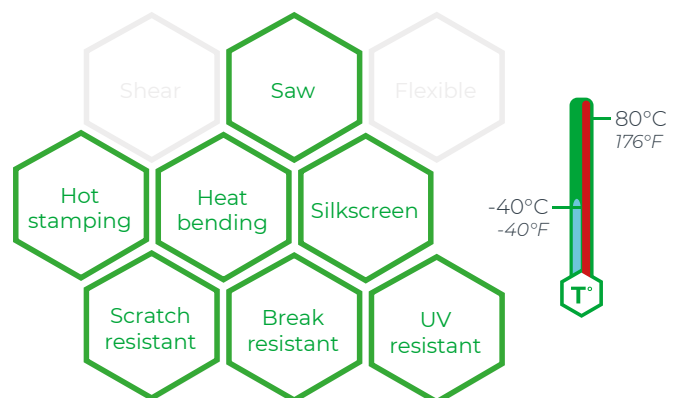
COMPLEMENTARY PRODUCTS

See page 78



Double-sided
19 mm

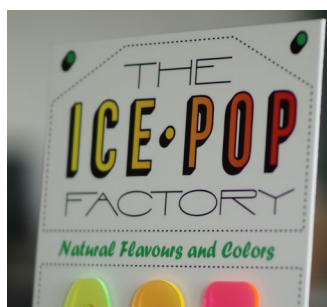
MATERIAL CAPABILITIES



APPLICATIONS



Decoration



Visual communication



Letter cut out



Indoor and outdoor signage



ECOCUT LASER

A very affordable material for laser cutting work

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

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

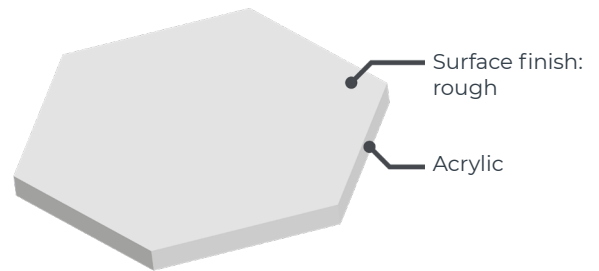


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 76

See page 78

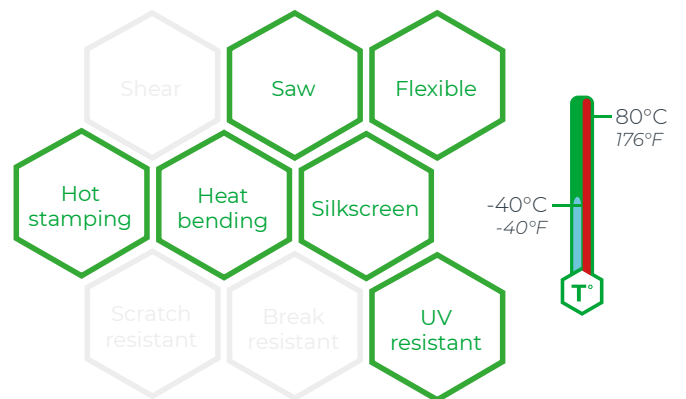


Gravoclean

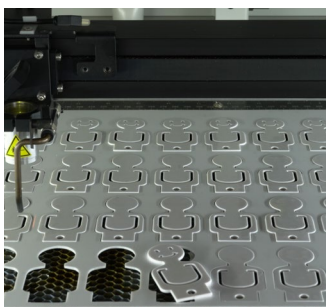


Adhesive mounting tape

MATERIAL CAPABILITIES



APPLICATIONS



Cutting shapes



Cutting-out template



Industrial stencil



Paint filling

RUBBALASE™

The laserable material made of natural rubber

| | Thickness |
|----------------------------|-----------------|
| Core colour | 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».

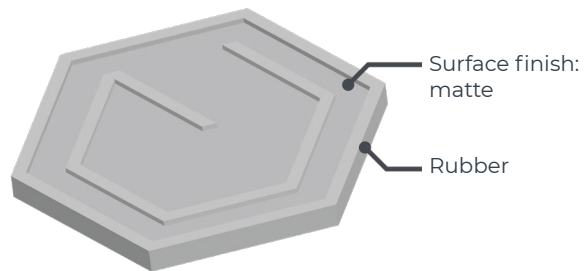
- Exclusively for lasering with CO2 laser engraving machines to create inking stamps.
- Its thickness of 2.2 mm (0.087") and its hardness (60 Shore) ensure a high definition result.
- Texts, numbers, logos, detailed pictures... from the most conventional to the most creative stamp.

AVAILABLE SHEET SIZES



297 x 210 mm
11.7 x 8.3"

MATERIAL SPECIFICITIES



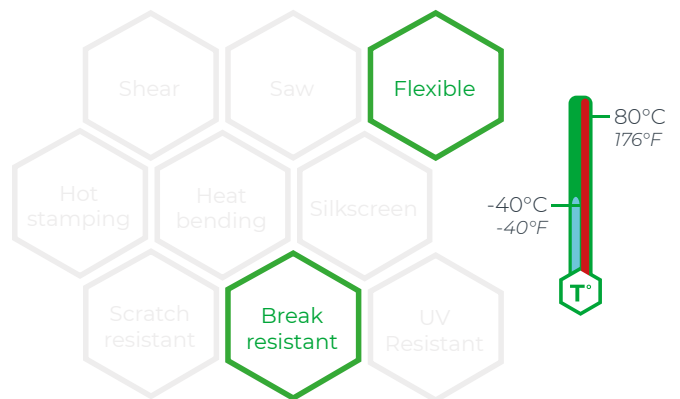
COMPLEMENTARY PRODUCTS

See page 79



Gravogrip™

MATERIAL CAPABILITIES



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.



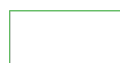
FLEXILASE™

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 aluminum | black | 66991 |
| glossy silver | black | 66990 |
| matt aluminum | black | 67558 |
| european gold | black | 66989 |
| glossy gold | black | 66988 |
| grey | white | 67003 |
| black | white | 66995 |

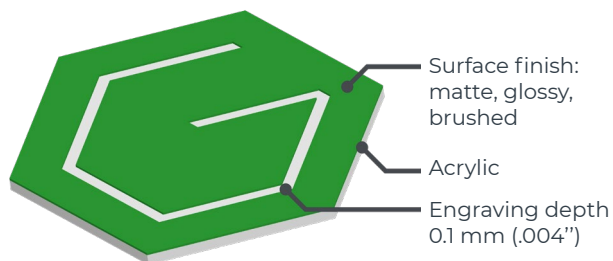
- Very thin and flexible, excellent for indoor and outdoor labels on flat or curved surfaces.
- Surface layer of just a few microns for fine laser CO2 engraving and cutting.
- Delivered with adhesive backing. Metallic colours for cups and trophies to be personalised.

AVAILABLE SHEET SIZES



610 x 305 mm
24 x 12"

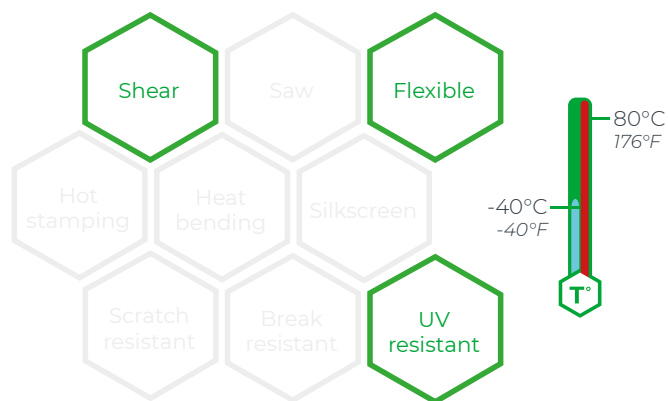
MATERIAL SPECIFICITIES



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

You can mix any surface and core colours on demand.

MATERIAL CAPABILITIES



APPLICATIONS



Industrial labels



Labels for personalization



Trophy plates



Labels for curved surfaces

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™.

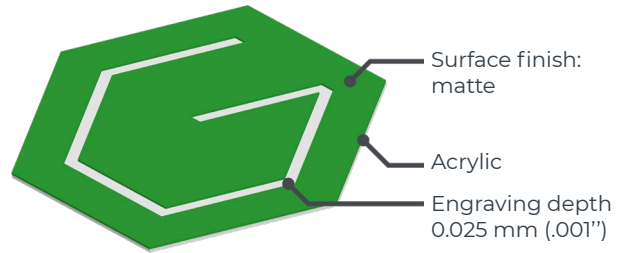
- Our thinnest material: surface layer of 0.09 mm (0.004") for fine engraving and clean cut when using a CO2 laser.
- Very good material for small labels on curved surface.
- Delivered in 10 metres (32') roll, with adhesive backing.

AVAILABLE SHEET SIZES

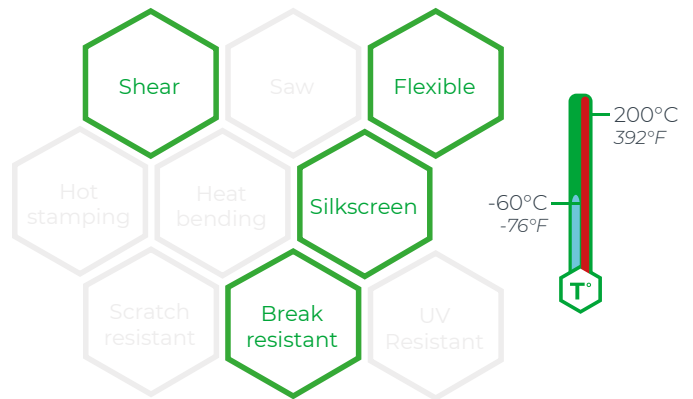


120 mm x 10 m
4.75" x 32'

MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



APPLICATIONS



Small labels to stick



Inventory labels



Barcode

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



GRAVOLASE™ METALLICS

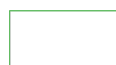
Laser material for a high-end metallic finish

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

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

- The CO2 laser engraving and cutting plastic with a metallic aspect, cheaper than metal.
- 0.025 mm (0.001") surface layer for detailed engraving.
- Large range of metallic colours in a glossy, brushed or matte finish.

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

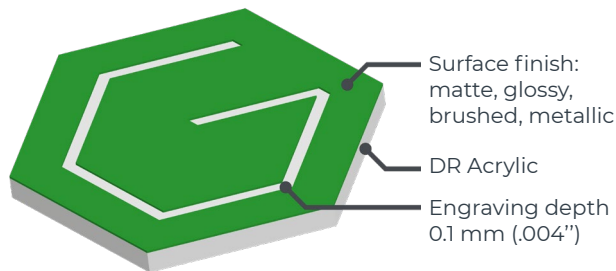


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 78



Double-sided
50mm

See page 79



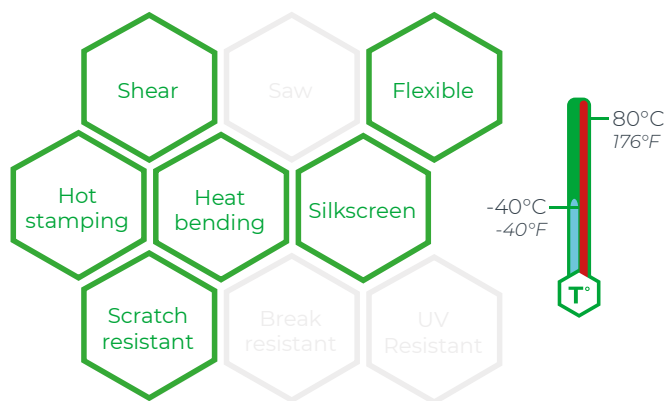
Gravofix

See page 87



Coloured
badges plastic
frames

MATERIAL CAPABILITIES



APPLICATIONS



Trophy plates



Award plates



Badges



Indoor signage

COLORED ALUMINUM

The coloured aluminium for a striking contrast

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

- Ideal metal for labels, small plates and indoor signage.
- Great for creativity: astonishing contrast after rotary or fibre laser engraving. Also sublimable.
- Thin aluminium: easy to cut and shear.

AVAILABLE SHEET SIZES

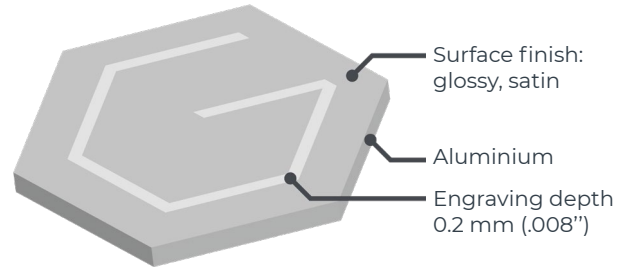


1220 x 305 mm
48 x 12"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



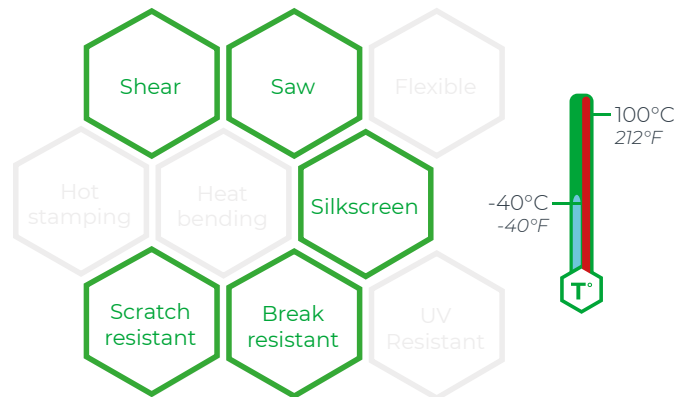
COMPLEMENTARY PRODUCTS

See page 78



Double-sided
19 mm

MATERIAL CAPABILITIES



APPLICATIONS



Directional signage



Name plate



Informative signage



GRAVOXAL™ - MATTE

The multipurpose anodised aluminium range

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

Note:
Protective film on one side.

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

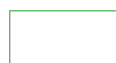
Laser engraving on all colours except silver. The engraving contrast may vary according to the colour.

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

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

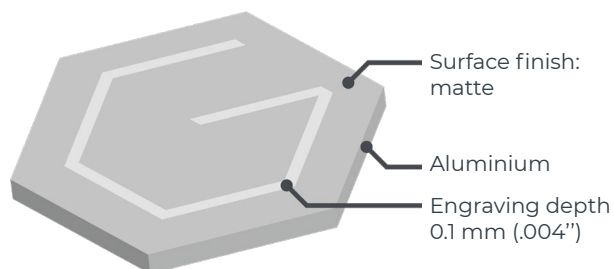
- Strong anodisation for a durable protection of the material.
- Ideal for the manufacture of front panels, the engraving of nameplates and industrial signage.
- High-definition laser engraving to be carried out even at greyscales.

AVAILABLE SHEET SIZES

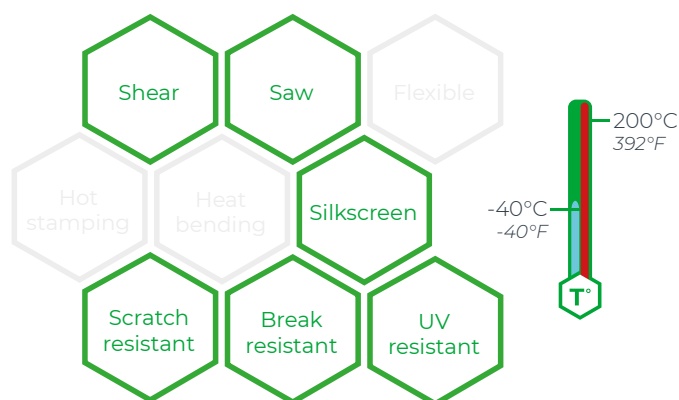


1000 x 500 mm
39 x 19"

MATERIAL SPECIFICITIES



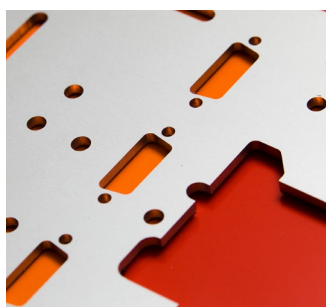
MATERIAL CAPABILITIES



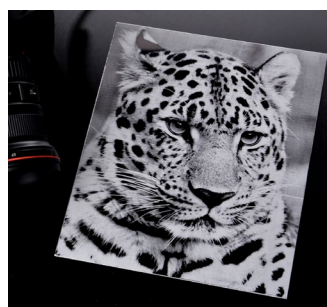
APPLICATIONS



Large signage



Control panels



Pictures



Small plates

GRAVOXAL™ - GLOSSY

The multipurpose anodised aluminium range

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

Note:
Protective film on one side.

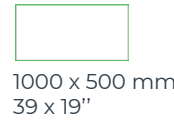
Due to the process, there can be stains in the corners of aluminium sheets.

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

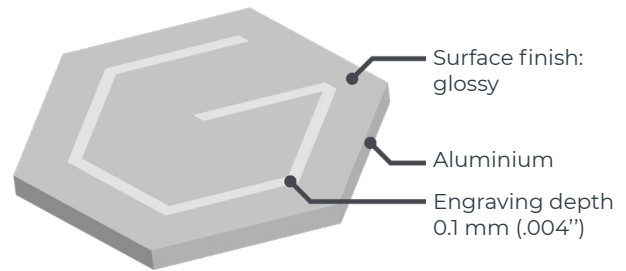
Size 2000 x 1000 mm (78 x 39") on request.

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

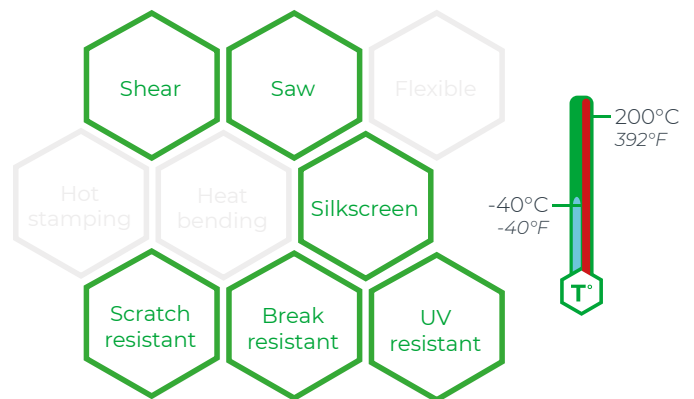
AVAILABLE SHEET SIZES



MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



APPLICATIONS



Control panel



Indoor signage



Aluminum tags



Exterior signage

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



ALUMAMARK®

Black marking on aluminum with CO2 engraving

| Surface colour | Core colour | Thickness | | |
|---------------------|--------------|------------------|--------------------|-----------------|
| | | *0.5 mm (0.020") | *0.127 mm (0.005") | 0.5 mm (0.020") |
| 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.

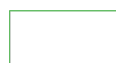
Different sizes for:

- Ref. 27414: 305 x 254 mm (12 x 10")
- Ref. 45878: 510 x 305 mm (20 x 12")
- Ref. 45879: 610 x 510 mm (24 x 20")

* Delivered with adhesive backing.

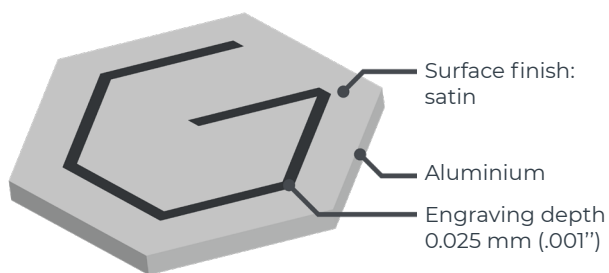
- Natural black marking thanks to a thermal reaction with the heat of any CO2 laser.
- No oxidation, chemical product or paint fill needed to get the contrast.
- Fine details and shades of grey, ideal for photos.

AVAILABLE SHEET SIZES

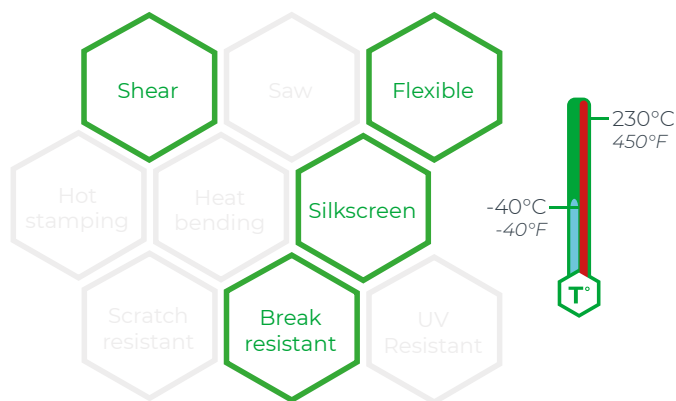


610 x 508 mm
 24 x 20"

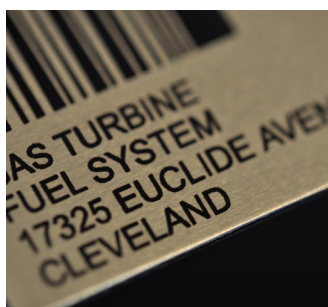
MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



APPLICATIONS



Small plates and labels



Picture reproductions



ID plates



Bar codes



DURABLACK®

Anodised aluminium for harsh environments

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

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

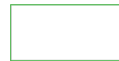
* Delivered with adhesive backing.

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

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

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

AVAILABLE SHEET SIZES

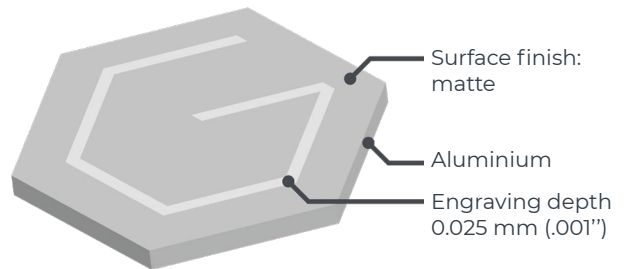


610 x 508 mm
24 x 20"



508 x 305 mm
20 x 12"

MATERIAL SPECIFICITIES



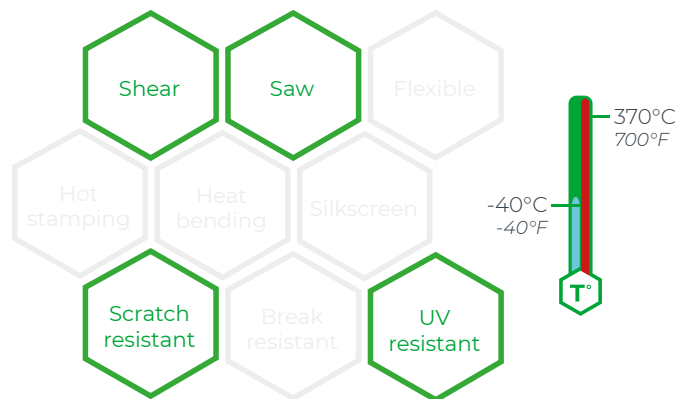
COMPLEMENTARY PRODUCTS

See page 79

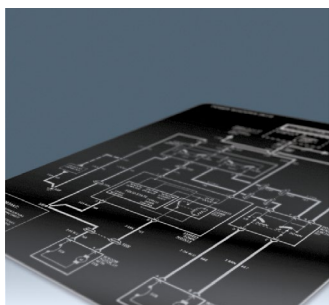


Gravogrip™

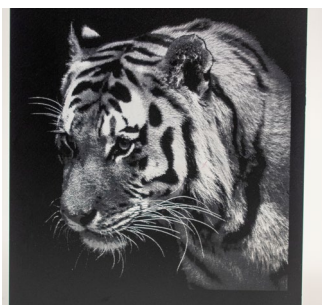
MATERIAL CAPABILITIES



APPLICATIONS



Industrial synoptic



Pictures reproductions



Outdoor signage



Asset tags

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"

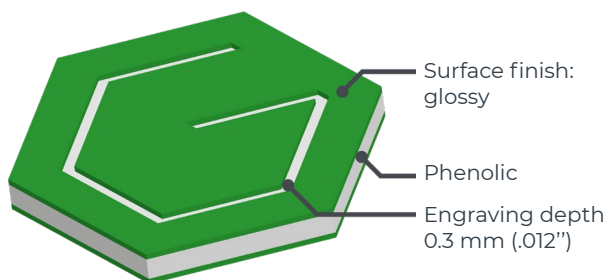


605 x 600 mm
24 x 24"



600 x 300 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 80

See page 81

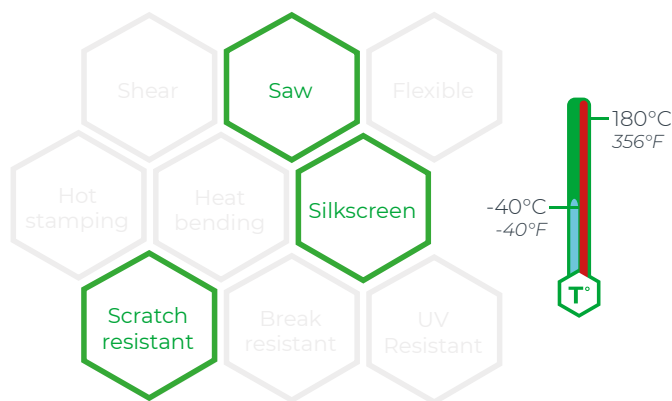


Ball chains



Nickel-plated steel ring

MATERIAL CAPABILITIES



APPLICATIONS



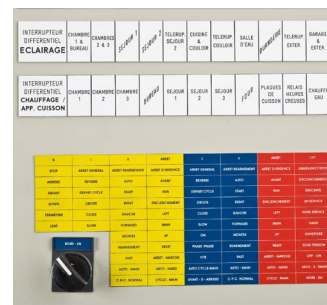
Indoor signage



Safety sign



Push button



Industrial identification

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

GRAVOTAC™ EXTERIOR

The outdoor laserable braille material



Watch our videos!

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"



610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

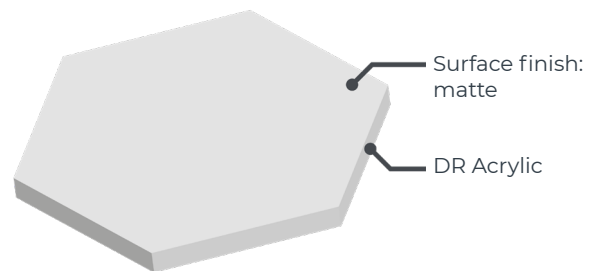
THE GRAVOTAC™ PROCESS



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

For better visibility, choose contrasted colours.

MATERIAL SPECIFICITIES



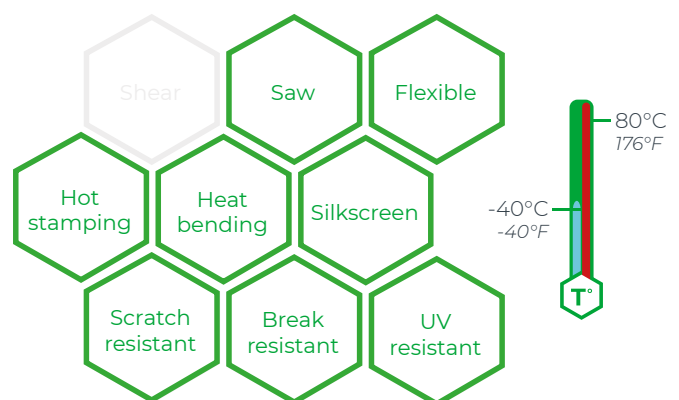
COMPLEMENTARY PRODUCTS

See page 76



Gravoclean

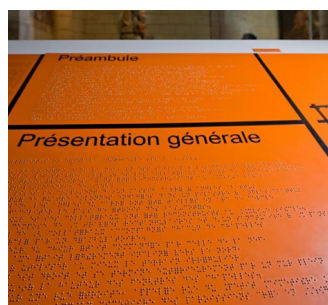
MATERIAL CAPABILITIES



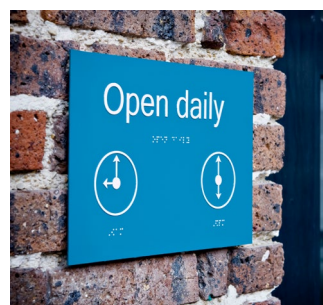
APPLICATIONS



Icons and pictograms



Braille and tactile signage



Outdoor signage



Tactile signage



LASER WOOD

Think Green. Go Green.



Watch our videos!

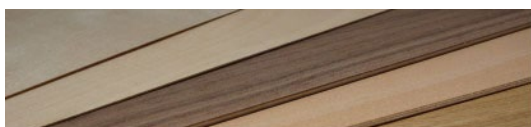
| Core colour | Thickness | | | |
|-------------|---------------------|---------------------|---------------------|----------------------|
| | 0.4 mm (1/64") * | 1.0 mm (3/64") * | 2.5 mm (3/32") * | 4.5 mm (11/64") * |
| birch | 82741 | 82742 | 82743 | 82744 |
| beech | | | 82747 | 82748 |
| oak | |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

* References in green are double-sided

Note:
Packaged by 5.

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

STARTER KIT - REF. 83925



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

COMPLEMENTARY PRODUCTS

See page 79

See page 79

See page 78



Masking paper

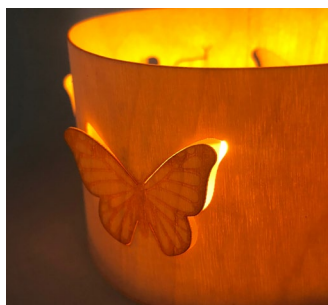


Clamps



Transfer

APPLICATIONS



Decoration and gifts



Architectural models



Interior signage



Personalized cards and DIY

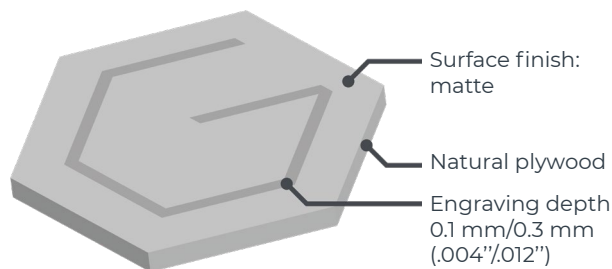
- Safe composition, respect of both nature and people.
- From thin and flexible 0.4 mm (1/64") to thick and rigid wood 4.5 mm (11/64").
- 0.4 mm (1/64") as thin as paper, for flexible applications.
- Mix with other materials like Acrylic and aluminum for modern and trendy creations!

AVAILABLE SHEET SIZES

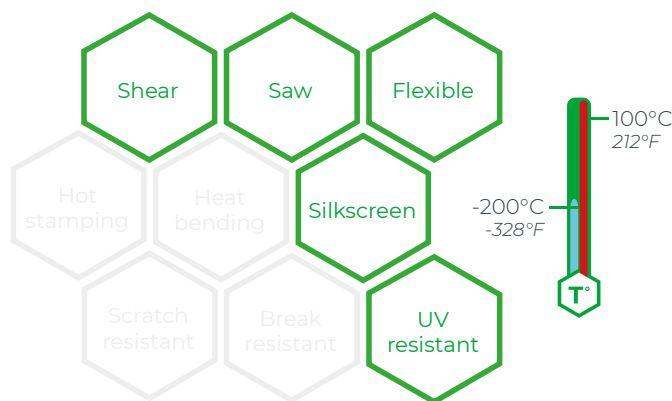


610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES





ROTARY MATERIALS

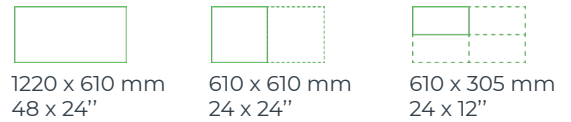
GRAVOPLY™ 1

Our universal & historical material

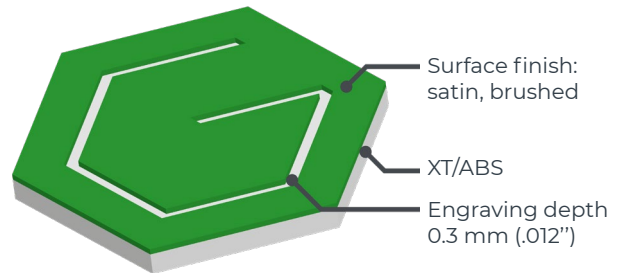
| Surface colour | Core colour | Thickness | | | | |
|----------------|-------------|-------------------|-------------------|---------------------|-------------------|--------------------|
| | | 0.8 mm (1/32") | 1.6 mm (1/16") | 1.6 mm (1/16") * | 2.4 mm (3/32") | 3.2 mm (1/8") * |
| white | green |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

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

AVAILABLE SHEET SIZES

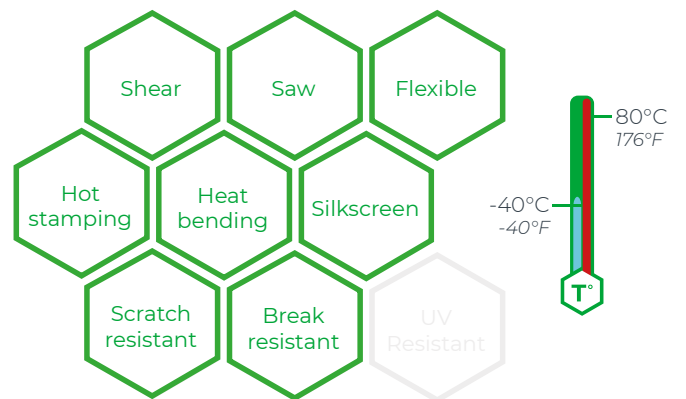


MATERIAL SPECIFICITIES



* References in green are double-sided

MATERIAL CAPABILITIES



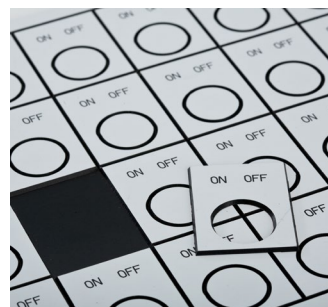
APPLICATIONS



Indoor signage



Key tags



Push buttons



Industrial signage

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



GRAVOPLY™ 2

The affordable material for small plates and labels

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

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

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

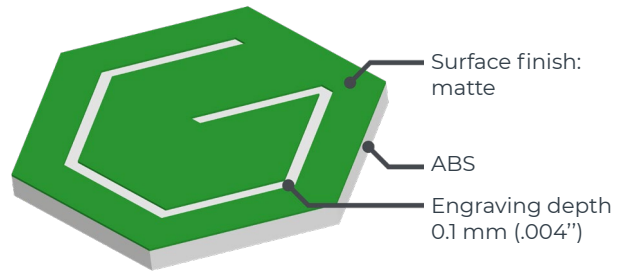


610 x 610 mm
24 x 24"

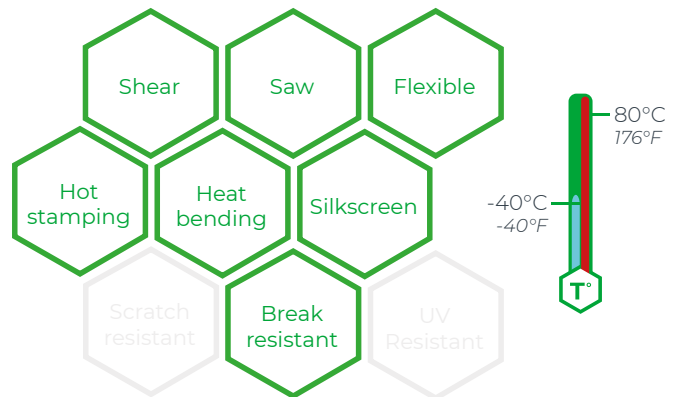


610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



* References in green are double-sided

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

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

APPLICATIONS



Braille signage



Indoor signage



Small labels and plates



Badges

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



GRAVOGLAS™ 2-PLEX™ - MATTE SURFACE

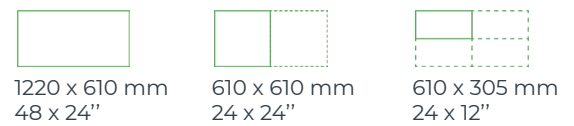
A strong acrylic material for outdoor use

| 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 | | |

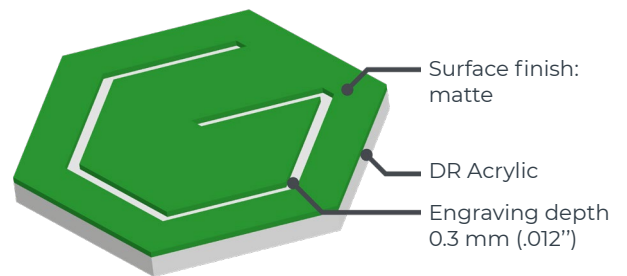
* References in green are double-sided

- 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



MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 76



Gravoclean

See page 82



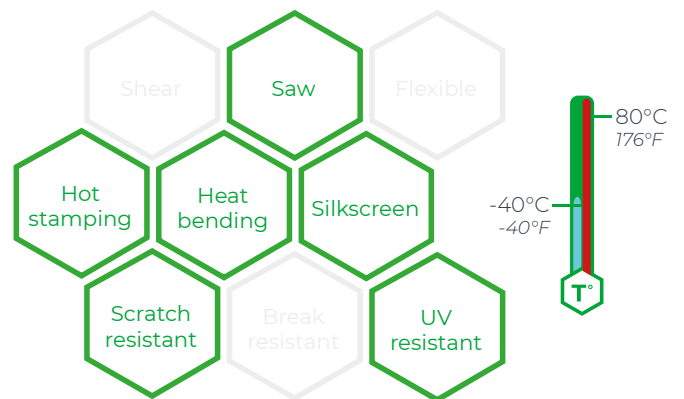
Spacers

See page 83



Aluminium plant label holder

MATERIAL CAPABILITIES



APPLICATIONS



Legend plate



Industrial signage



Directional signage



Information plate

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



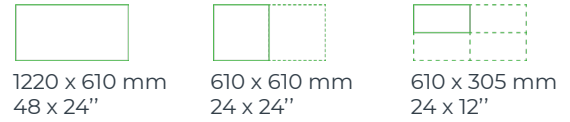
GRAVOGLAS™ 2-PLEX™ - GLOSSY SURFACE

A strong acrylic material for outdoor use

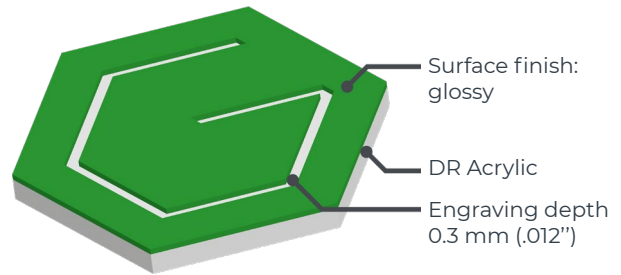
| Surface colour | Core colour | Thickness | |
|----------------|--------------|----------------|---------------|
| | | 1,6 mm (1/16") | 3,2 mm (1/8") |
| white | red | 17907 | 18063 |
| white | black | 17892 | 18051 |
| yellow | black | 17901 | 18060 |
| red | white | 17895 | 18054 |
| apple green | 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



MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 76



Gravoclean

See page 82



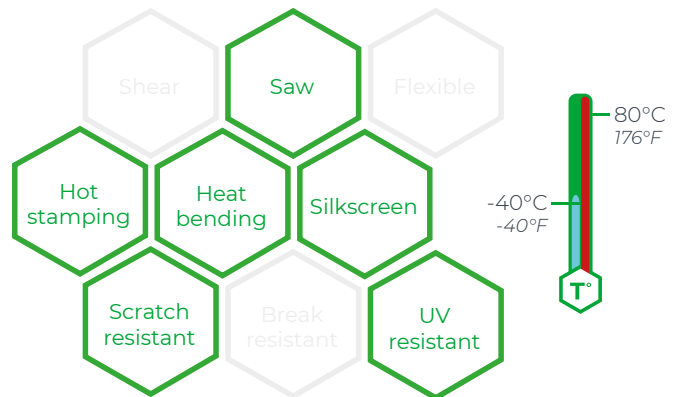
Wooden support

See page 82



Screws

MATERIAL CAPABILITIES



APPLICATIONS



Professional plate



Outdoor signage



Location identification



Information label

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"

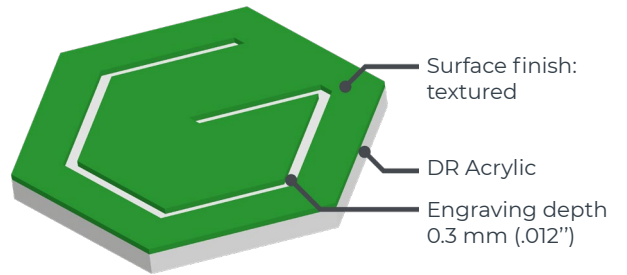


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 76



Industrial Degraising Spray

See page 80



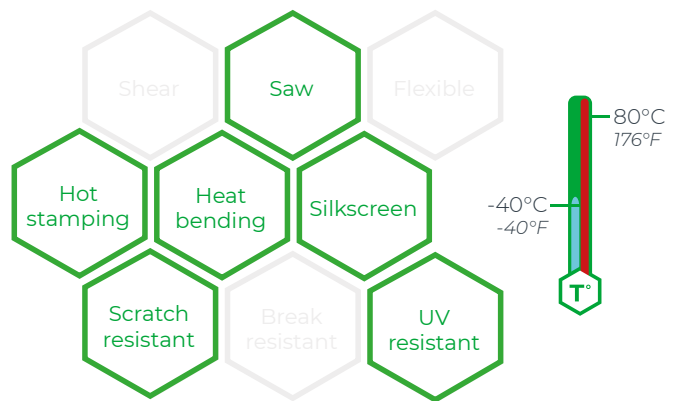
Ball chains

See page 81



S-hook rings

MATERIAL CAPABILITIES



APPLICATIONS



Industrial signage



Indoor and outdoor signage



Security sign



Electrical identification

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



GRAVOPLY™ 3C

The only comprehensive range offering 3 levels of colour

| Surface colour | Second surface colour | Core colour | Thickness |
|------------------|-----------------------|-------------|----------------|
| | | | 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 aluminum | black | white | 23951 |
| radiant gold | black | white | 23950 |
| black | red | white | 23948 |

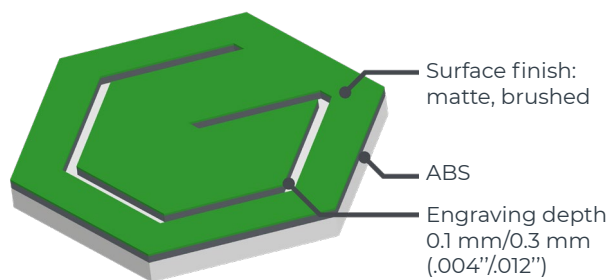
- Get a 3 colours sign without adding any colouring afterwards.
- Use just one tool to obtain 3 different colours simply by changing the engraving depth.
- Ideal for plates with logos, safety signs and badges.

AVAILABLE SHEET SIZES



Note:
Other colour combinations available on demand.

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 76

See page 78

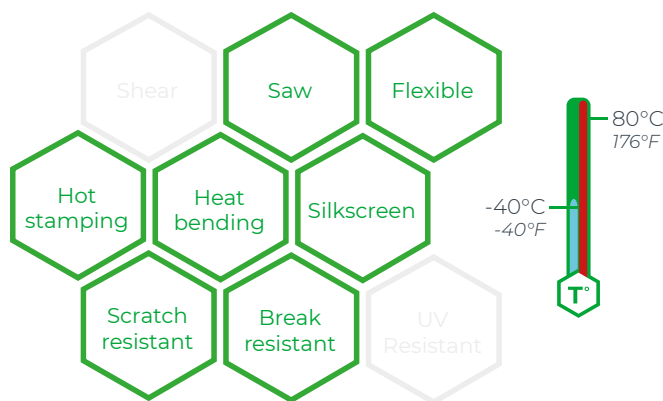


Gravoclean



Double-Sided Adhesives 50mm

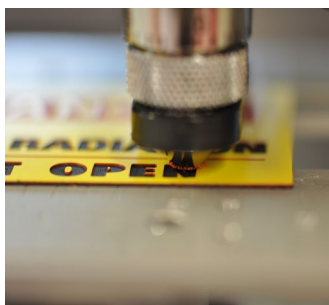
MATERIAL CAPABILITIES



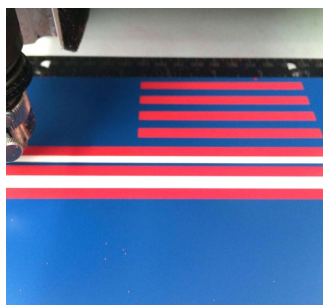
APPLICATIONS



Signage



Safety sign



Logos and pictures



Pictograms

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



ECOCUT

A very affordable material for rotary cutting work

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

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

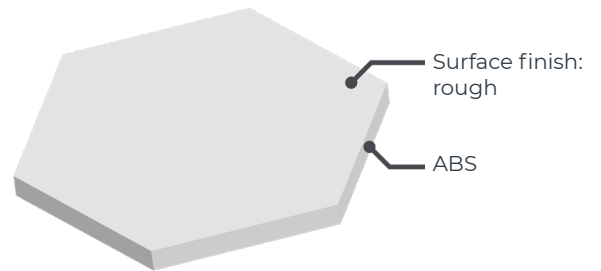


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 76

See page 78

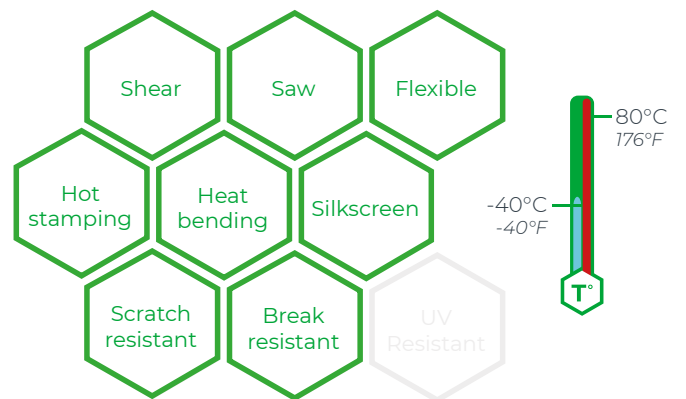


Gravoclean



Adhesive mounting tape

MATERIAL CAPABILITIES



APPLICATIONS



Cutting-out template



Paint filling



Stencil for safety



Cutting shapes

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 |

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"



610 x 610 mm
24 x 24"

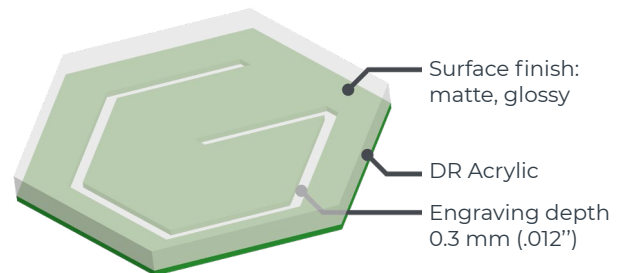


610 x 305 mm
24 x 12"

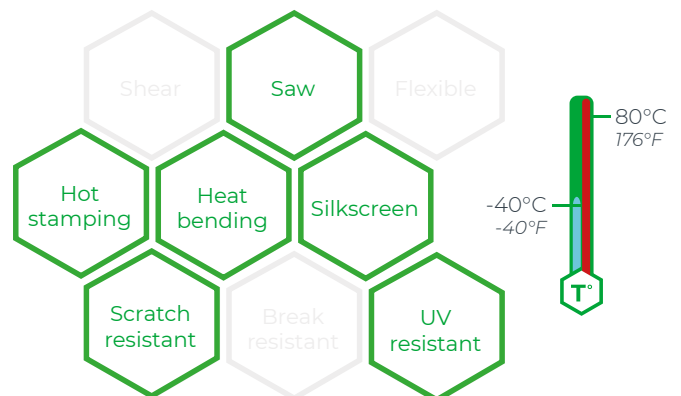
GLOSSY

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

MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



COMPLEMENTARY PRODUCTS

See page 73



Gravolaque

See page 82



Wooden support

See page 82

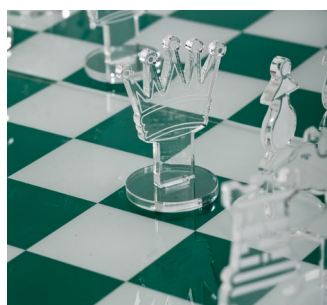


Screws

APPLICATIONS



Outdoor signage



Small pieces



Letter cut out



Gift and decoration

ACRYLIC - CLEAR

Let your creativity flow!



Watch our videos!

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

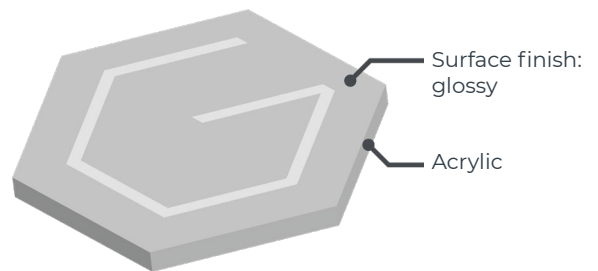


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 73

See page 73

See page 82



Gravolaque

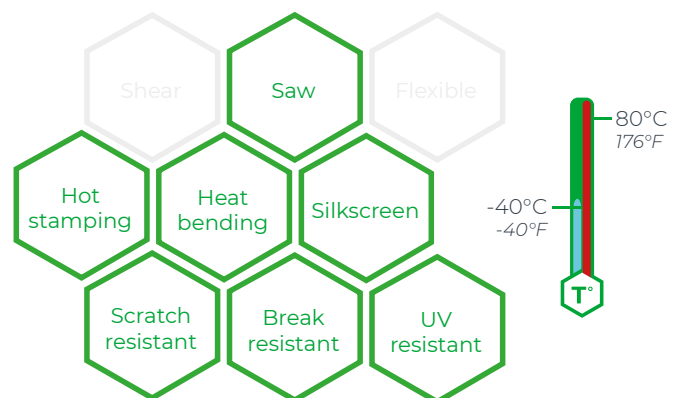


Application Kit



Spacers

MATERIAL CAPABILITIES



APPLICATIONS



Gift and decoration



Promotional items



Light and illumination



Trophy and awards



ACRYLIC - FLUORESCENT

Let your creativity flow!



Watch our videos!

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

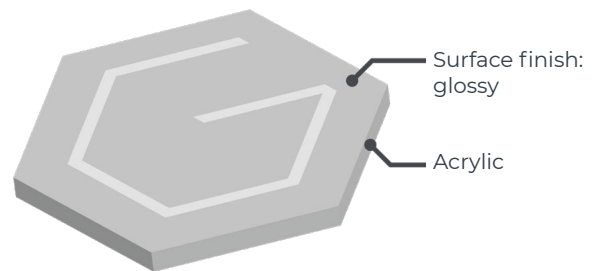


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 82



Spacers

See page 80



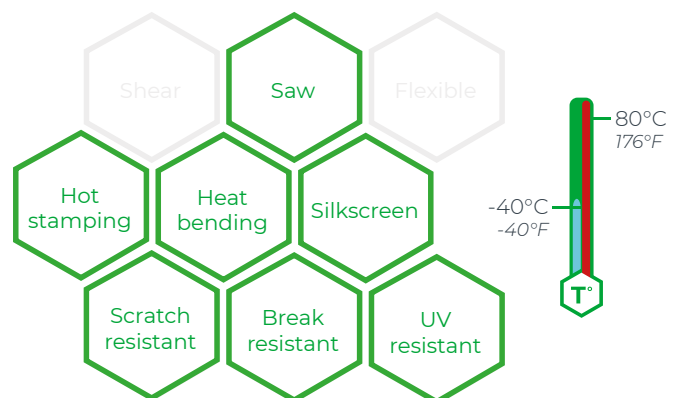
Ball chains

See page 81



Nickel-plated steel ring

MATERIAL CAPABILITIES



APPLICATIONS



Decoration



Promotional items



Gifts



Display



ACRYLIC - FROSTED

Let your creativity flow!



Watch our videos!

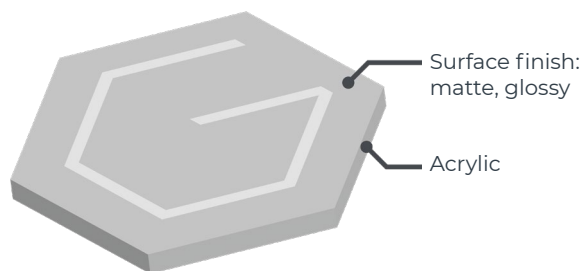
| Core colour | Thickness |
|---------------------|---------------|
| | 3.0 mm (1/8") |
| frosted white | 83431 |
| frosted light blue | 83434 |
| frosted sky blue | 83438 |
| frosted blue ocean | 83435 |
| frosted blue lagoon | 83437 |
| frosted green | 83436 |
| frosted yellow | 83432 |
| frosted pink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

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

AVAILABLE SHEET SIZES



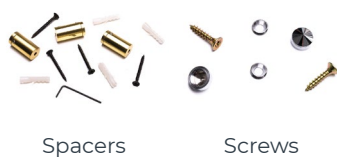
MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 82

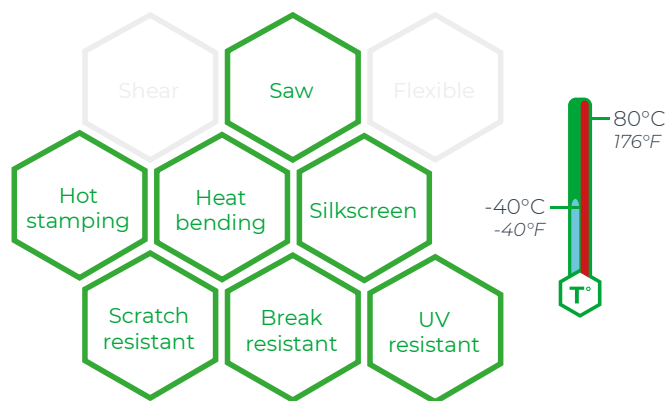
See page 82



Spacers

Screws

MATERIAL CAPABILITIES



APPLICATIONS



Decoration



Gifts and promotional items



Decoration



Creative signage



ACRYLIC - OPAQUE

Let your creativity flow!



Watch our videos!

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

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

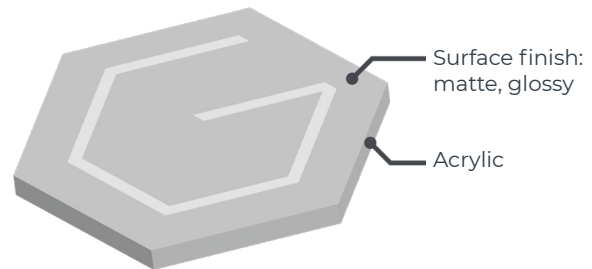


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 73



Gravolaque

See page 73



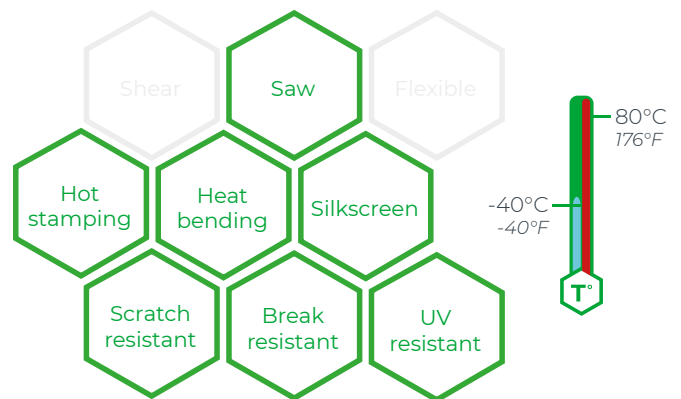
Application Kit

See page 78



Double-sided
19 mm

MATERIAL CAPABILITIES



APPLICATIONS



Decoration



Visual communication



Letter cut out



Indoor and outdoor signage



FLEXILASE™

The flexible material for high-definition engraving

| Surface colour | Core colour | Thickness |
|------------------|--------------|------------------|
| | | 0.25 mm (0.010") |
| white | 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 aluminum | black | 66991 |
| glossy silver | black | 66990 |
| matt aluminum | black | 67558 |
| european gold | black | 66989 |
| glossy gold | black | 66988 |
| grey | white | 67003 |
| black | white | 66995 |

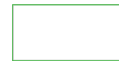
Note:

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

You can mix any surface and core colours on demand.

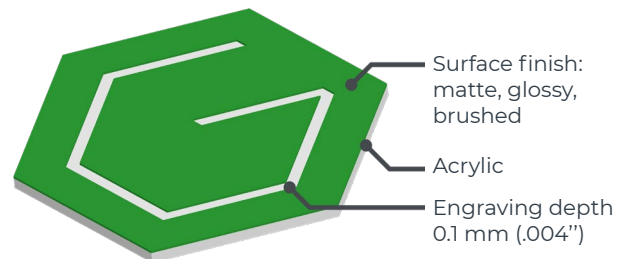
- Very thin and flexible, excellent for indoor and outdoor labels on flat or curved surfaces.
- Surface layer of just a few microns for fine laser CO2 engraving and cutting.
- Delivered with adhesive backing. Metallic colours for cups and trophies to be personalised.

AVAILABLE SHEET SIZES

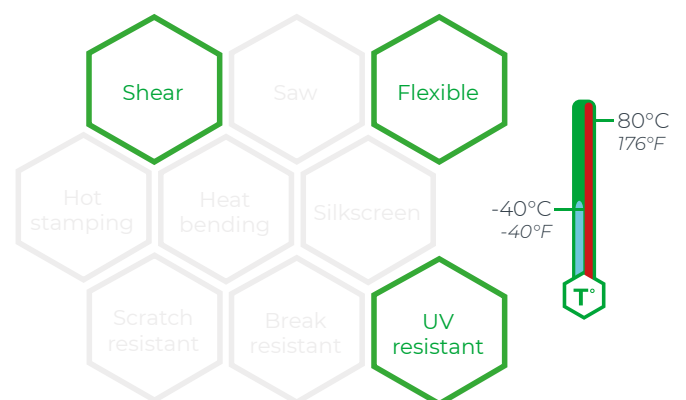


610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



APPLICATIONS



Industrial labels



Labels for personalization



Trophy plates



Labels for curved surfaces



GRAVOFOIL™

The reference for thin material dedicated to industrial signage

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

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

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

AVAILABLE SHEET SIZES

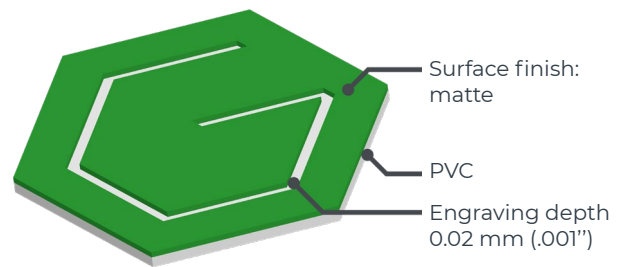


660 x 480 mm
25 x 18"

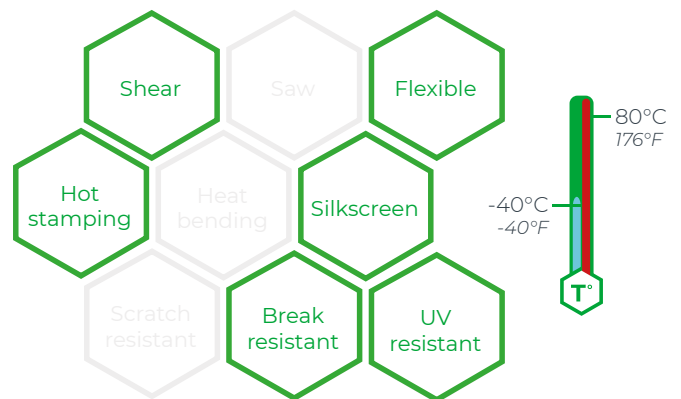


480 x 330 mm
18 x 12.5"

MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



APPLICATIONS



Pipes and valves identification



Permanent labels



Pipes identification



Industrial labels



METALLEX™

Metallic appearance for a high-end finish

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

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

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

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

• A metallic aspect material with the advantages of plastic: easily cut and cheaper than metal.

• Fast engraving thanks to the very thin surface layer.

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

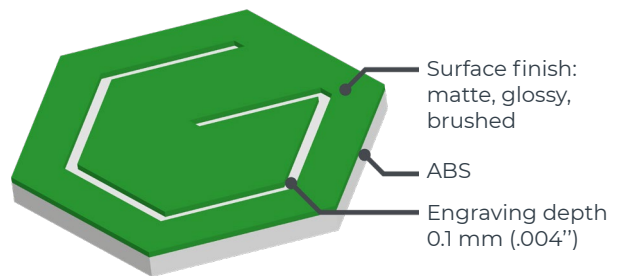


610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 78



Double-sided
50mm

See page 79



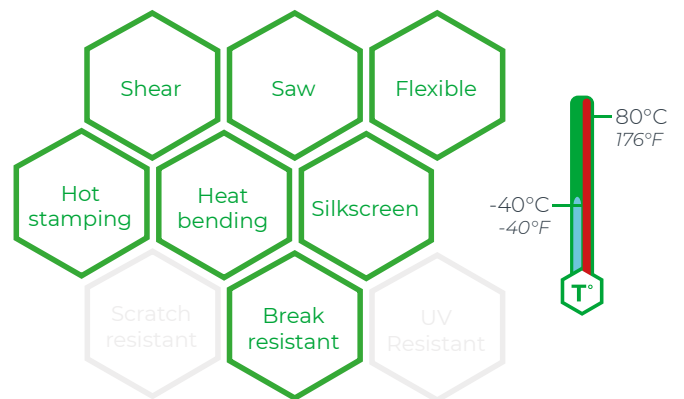
Gravifix™

See page 87



Coloured
badges plastic
frames

MATERIAL CAPABILITIES



APPLICATIONS



Pictograms



Trophy plates



Indoor signage



Badges



METALLEX™ - HARD COAT

Metallic appearance for a high-end finish

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

Note:

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

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

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

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

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

AVAILABLE SHEET SIZES



1220 x 610 mm
48 x 24"

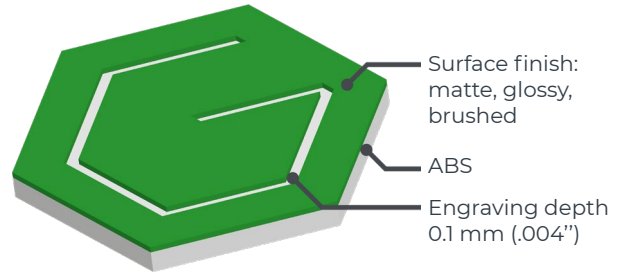


610 x 610 mm
24 x 24"

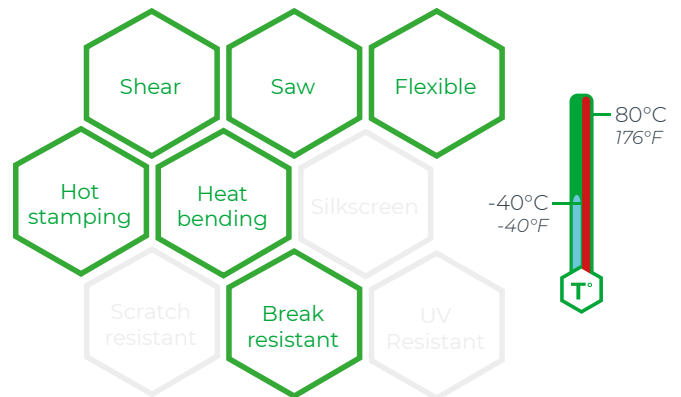


610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



APPLICATIONS



Ornamental plates



Indoor signage



Badges



Small signage



GRAVOMETALL™ - GLOSSY

The high quality brass material

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

Note:

Diamond, rotary and burnish engraving.

Pre-polished and lacquered.

Apply clear lacquer after engraving to avoid tarnishing.

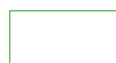
For contrasting lettering, use Gravoxide or paint.

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

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

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

AVAILABLE SHEET SIZES

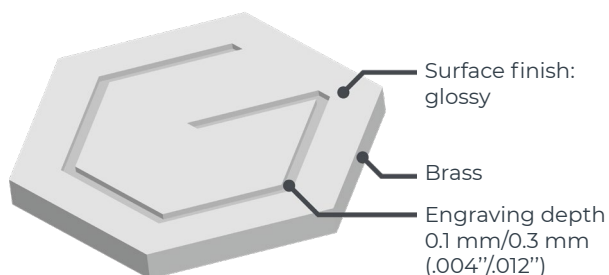


1220 x 305 mm
48 x 12"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 73

See page 73

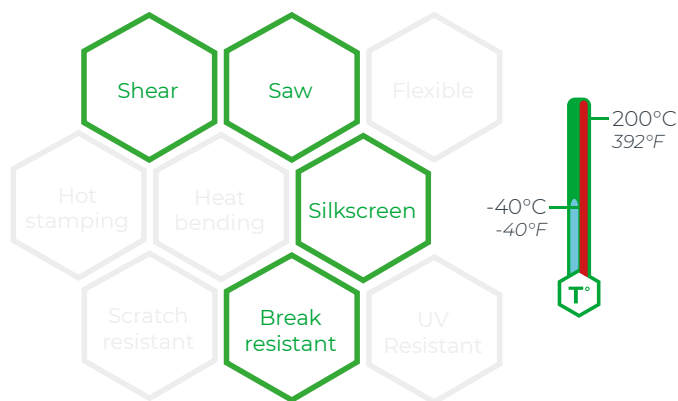


Gravoxide



Gravolaque

MATERIAL CAPABILITIES



APPLICATIONS



Trophy plates



Indoor signage

GRAVOMETALL™ - SATIN

The high quality brass material

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

Note:

Diamond, rotary and burnish engraving.

Pre-polished and lacquered.

Apply clear lacquer after engraving to avoid tarnishing.

For contrasting lettering, use Gravoxide or paint.

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

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

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

AVAILABLE SHEET SIZES

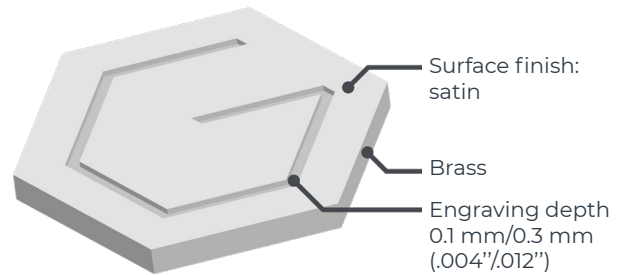


1220 x 305 mm
48 x 12"



610 x 305 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 73



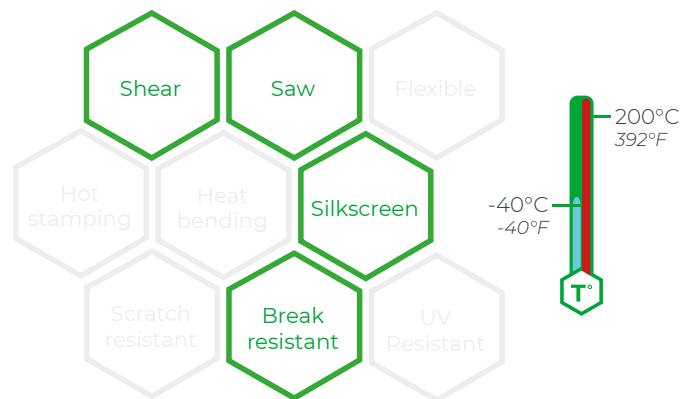
Gravoxide

See page 73



Gravolaque

MATERIAL CAPABILITIES



APPLICATIONS



Indoor signage



Architectural signage



GRAVOBRASS™ EXTERIOR

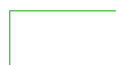
The watchmaking-quality brass for outdoor use

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

Note:
 Brass oxidation is a natural phenomenon. Clean your Gravobras[™] 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"

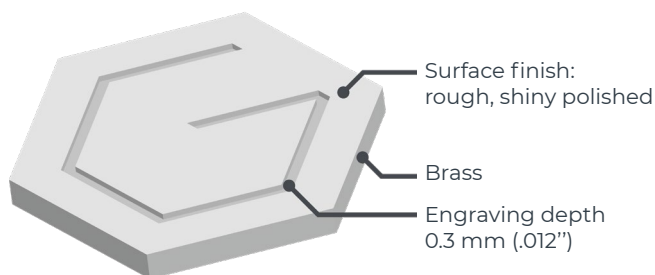


670 x 670 mm
26 x 26"



670 x 335 mm
26 x 13"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 77



Engravolube solution

See page 73



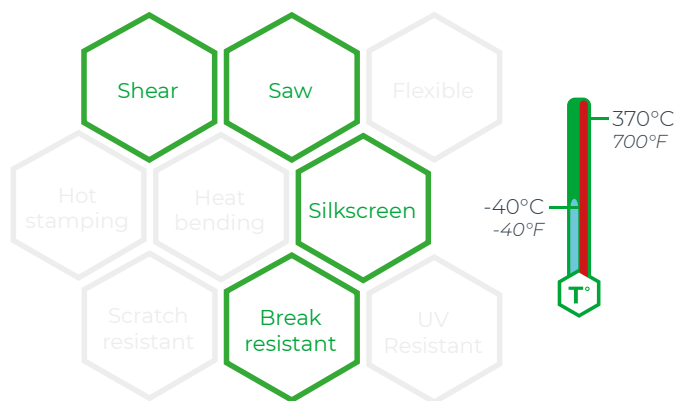
Gravolaque

See page 73



Application Kit

MATERIAL CAPABILITIES



APPLICATIONS



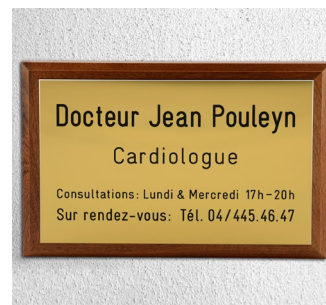
Architectural signage



Company name plaques



High quality signage



Professional plaques

COLORED ALUMINUM

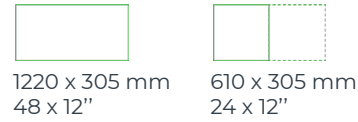
The coloured aluminium for a striking contrast

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

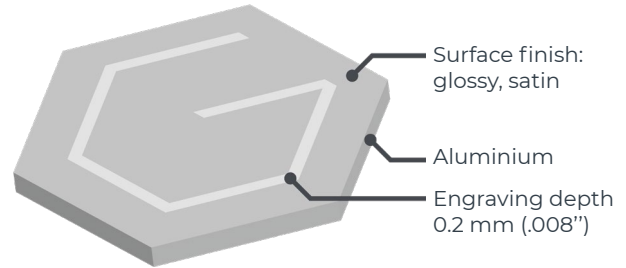
Note:
Black, blue and red have a glossy finish.

- Ideal metal for labels, small plates and indoor signage.
- Great for creativity: astonishing contrast after rotary or fibre laser engraving. Also sublimatable.
- Thin aluminium: easy to cut and shear.

AVAILABLE SHEET SIZES



MATERIAL SPECIFICITIES

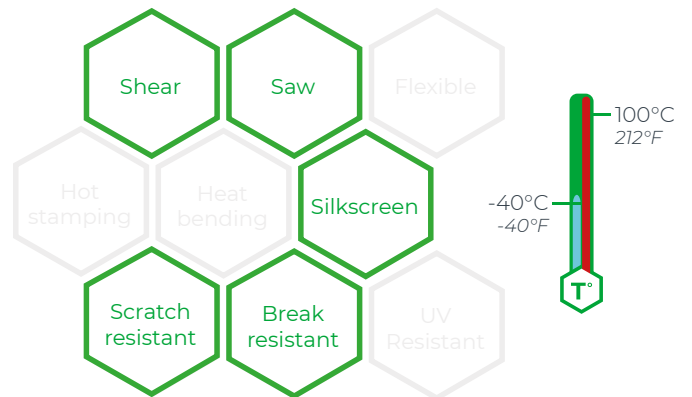


COMPLEMENTARY PRODUCTS

See page 76 See page 78 See page 78

Surfex® lubricant Universal Cleaner Double-sided 19 mm

MATERIAL CAPABILITIES



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

Note:
Protective film on one side.

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

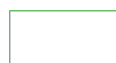
Laser engraving on all colours except silver. The engraving contrast may vary according to the colour.

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

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

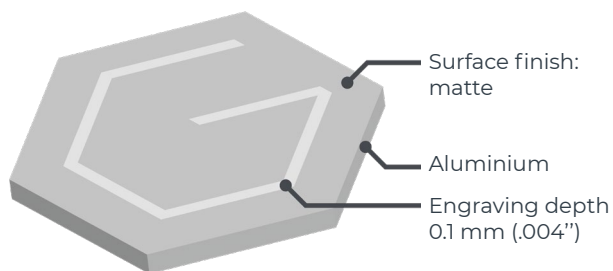
- Strong anodisation for a durable protection of the material.
- Ideal for the manufacture of front panels, the engraving of nameplates and industrial signage.
- High-definition laser engraving to be carried out even at greyscales.

AVAILABLE SHEET SIZES

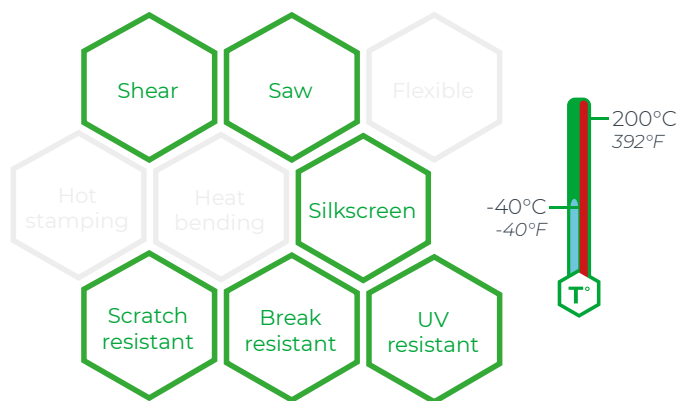


1000 x 500 mm
39 x 19"

MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



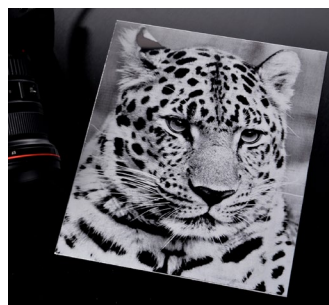
APPLICATIONS



Large signage



Control panels



Pictures



Small plates

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

Note:
Protective film on one side.

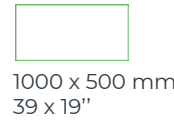
Due to the process, there can be stains in the corners of aluminium sheets.

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

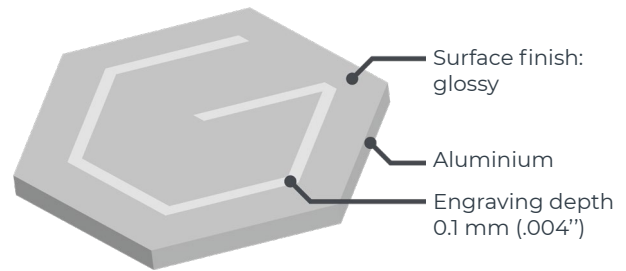
Size 2000 x 1000 mm (78 x 39") on request.

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

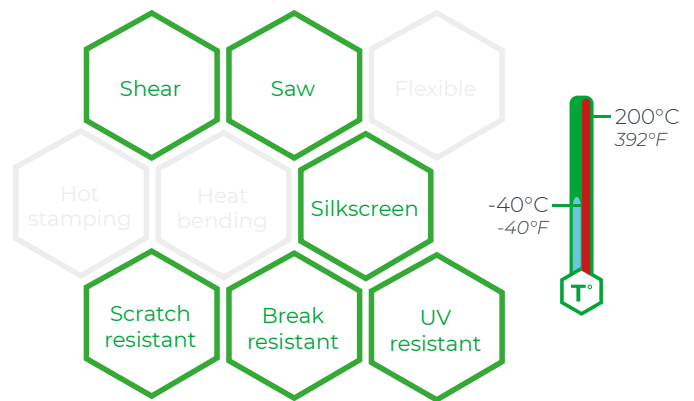
AVAILABLE SHEET SIZES



MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



APPLICATIONS



Control panel



Indoor signage



Aluminum tags



Exterior signage

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



GRAVOSTRAL™

The advantages of aluminium combined with those of a phenolic base

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

* References in green are double-sided

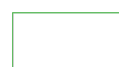
Note:

Black engraving.

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

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

AVAILABLE SHEET SIZES



1220 x 605 mm
48 x 23"

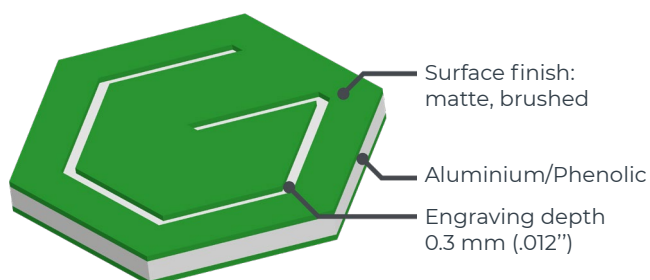


610 x 605 mm
24 x 23"

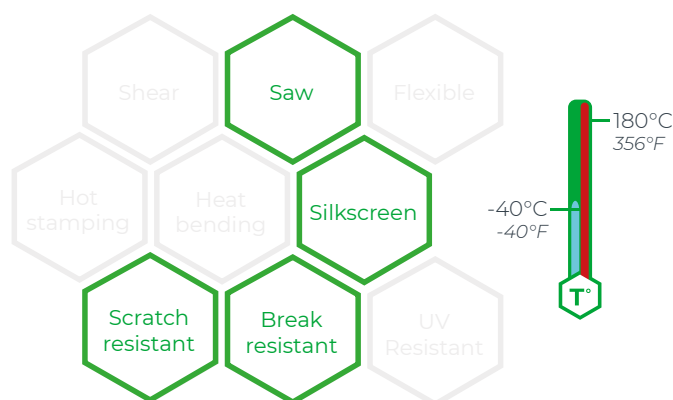


605 x 305 mm
23 x 12"

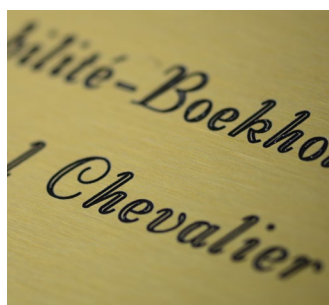
MATERIAL SPECIFICITIES



MATERIAL CAPABILITIES



APPLICATIONS



Professional plaques



Identification plates



Signs for shops



Interior signage

GRAVOSTRAT™

An economical material for demanding applications

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

* References in green are double-sided

Note:

Gravostrat™ can be laser engraved but not laser cut.

Gravostrat™ may be subject to slight variations in thickness.

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

- Ideal choice for all industrial identification needs.

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

AVAILABLE SHEET SIZES



1210 x 605 mm
48 x 24"

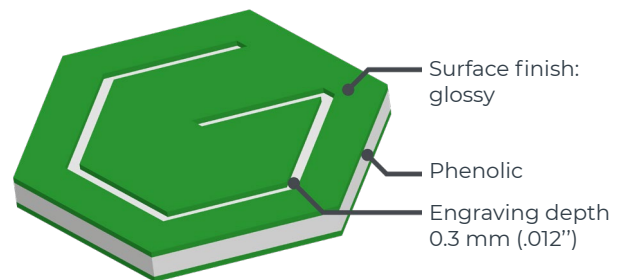


605 x 600 mm
24 x 24"



600 x 300 mm
24 x 12"

MATERIAL SPECIFICITIES



COMPLEMENTARY PRODUCTS

See page 76



Industrial
Degraising
Spray

See page 80



Ball chains

See page 81



Nickel-plated
steel ring

APPLICATIONS



Indoor signage



Safety sign

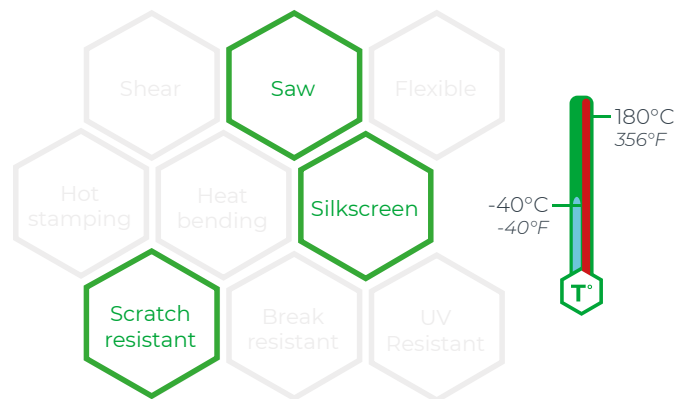


Push button



Industrial identification

MATERIAL CAPABILITIES



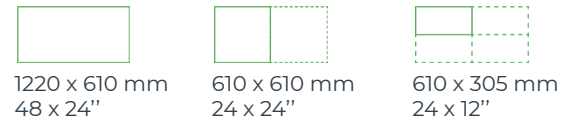
GRAVOTAC™

The indoor material for ADA compliant braille and tactile signage

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

- Matte finish. Complies with Americans with Disabilities Act (ADA) and Disability Discrimination Act (DDA).
- Ideal for signage in buildings open to the public.
- Save time and order your sheets with adhesive backing.

AVAILABLE SHEET SIZES



THE GRAVOTAC™ PROCESS



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

For better visibility, choose contrasted colours.

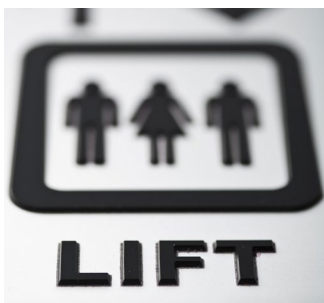
COMPLEMENTARY PRODUCTS

See page 76



Gravoclean

APPLICATIONS



Indoor signage



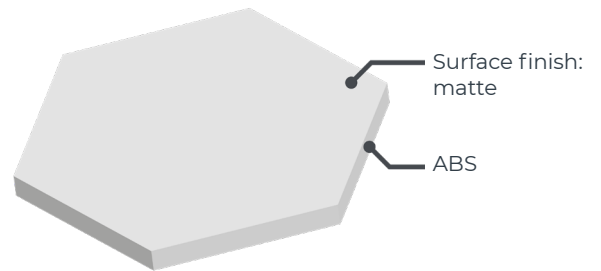
Pictograms



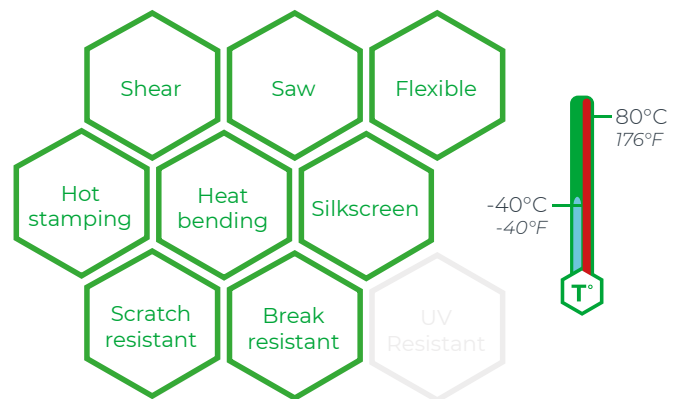
Shape cutting



Braille and tactile signage



MATERIAL CAPABILITIES





SIGNAGE

SIGN HOLDERS & BASE PLATES

COUNTER AND DESK BASES

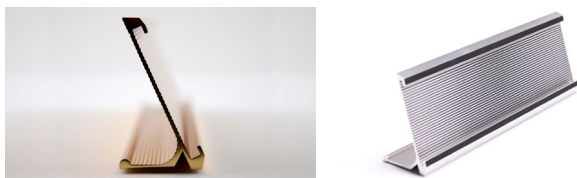
Ideal to support small to medium-sized inserts.
Supplied without signage plate.



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

DESK HOLDERS

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



| | Insert thickness | Insert dimensions | Colour | Ref. |
|-----------------------|------------------|--------------------------|--------|-------|
| Slimline plate holder | 1.6 mm (0.06") | 178 x 25 mm (7 x 1") | silver | 30072 |
| | | | gold | 30073 |
| Standard plate holder | 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 |

DOUBLE-SIDED HOLDERS

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



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

WALL BRACKETS

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

Use double-sided tape or screws to fix.

Supplied without nameplate.



Bevelled border finish

Square border finish

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

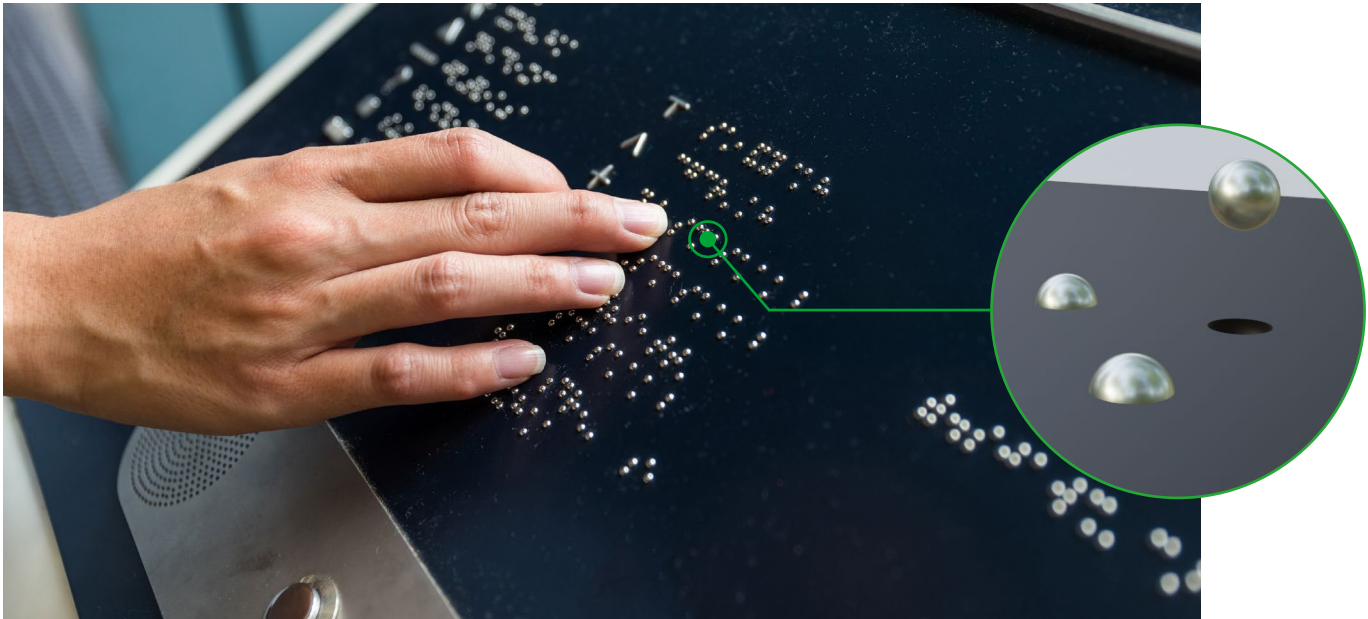
Supplied with screws and cap nuts but without any signage plate.



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

Our braille solution

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



COMPATIBLE WITH



IS400

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



IS8000

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

IS7000

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

IS6000

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

SOFTWARE

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



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

DRILLING TOOLS

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

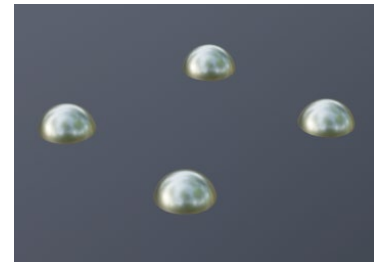
| BRAILLE TOOL SELECTION GUIDE | | | |
|------------------------------|-------------------------|---------------|-------------------------|
| Support Material | Adhesive-free materials | | Materials with adhesive |
| | Steel beads | Acrylic beads | All beads |
| Metals | 48767 | 48767 | 48768 |
| Acrylics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

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

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

BRAILLE BEADS

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



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

BEAD DISPENSER

Automatic and semi-automatic braille kit.



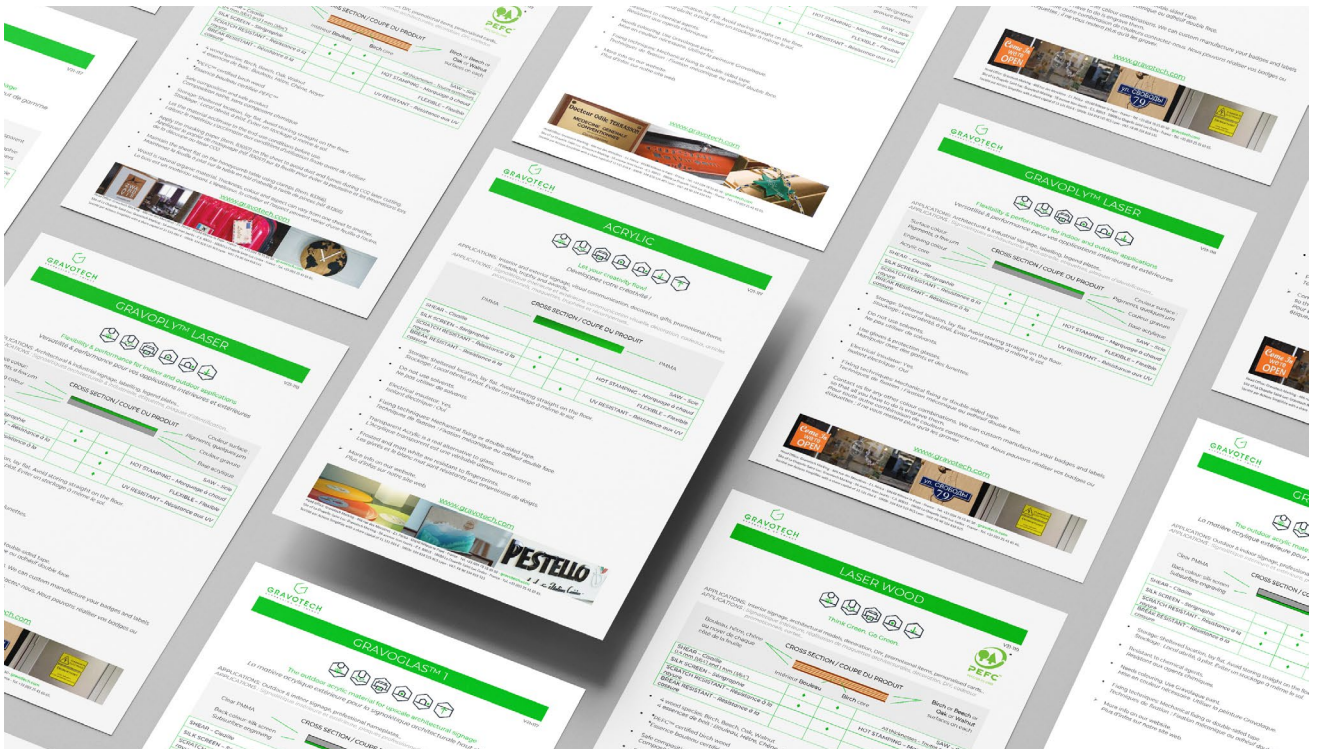
| Ref. | Description |
|-------|---|
| 70711 | Automatic braille for IS400 |
| 70713 | Automatic braille for IS 6/7/8000 IQ |
| 70714 | Automatic braille for IS 6/7/8000 XP |
| 49959 | Semi-automatic braille kit for IS400 & ISx000 |

MICROPEL



Antistatic solution for acrylic braille beads.
Ref. 76254

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



WHAT ARE TECHNICAL OR SAFETY DATASHEETS?

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

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

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

intended for engraving (not subject to hazardous substances).

You can find SDS for the following items:

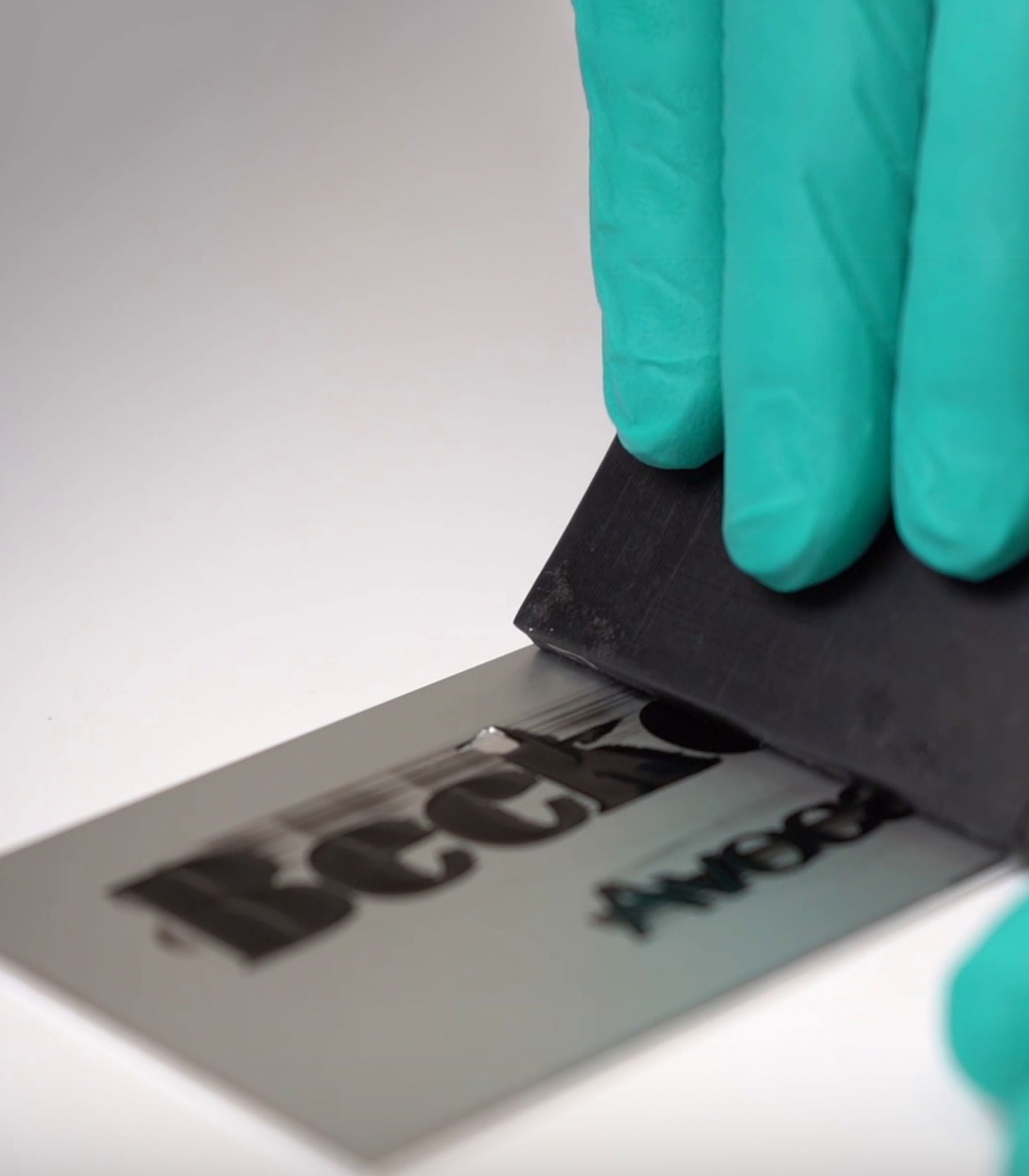
- Materials for laser engraving: plastics, acrylics, metallics and wood.
- Materials for mechanical engraving: plastics, metallics, phenolics.
- Engraving supplies: lubricants, cleaning agents, adhesives and colouring products.

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

**Information is provided as a guide only.*

Our datasheets are available here:





ENGRAVING SUPPLIES

COLOURING

Laser metal marking

METAL MARKER G

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

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

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



Watch our videos!

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



THERMARK®

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

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

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



CERMARK®

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

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

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

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

Paints

GRAVOLAQUE

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

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



Watch our videos!



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

NITROLAQUE



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

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

APPLICATION KIT

Pack - 1 unit

Ref. 72886

Application kit including:

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



Diluters



CLEANING DILUTER FOR TOOLS

Bottle - 1 L (33.8 oz)

Ref. 19468*



APPLICATION DILUTER

Bottle - 1 L (33.8 oz)

Ref. 19469*

Oxydising agents



GRAVOXIDE

Bottle with application pad - 90 mL (3 oz)

Ref. 21129*

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



ALOXIDE

Bottle with application pad - 90 mL (3 oz)

Ref. 21130*

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



Wax sticks

COLD WAX STICKS



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

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

GILDING WAX

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



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



ODORLESS MINERAL SPIRIT

Bottle - 245 mL (8.3 oz)

Ref. 86552

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

Odorless, it presents no risk of irritations or allergies.



CLEANING

GRAVOCLEAN

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



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



LASER OPTICS CLEANER

Pack - 125 mL (4.22 oz)

Ref. 26327*

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



UNIVERSAL CLEANER

Bottle - 1 L (33.8 oz)

Ref. 23913*

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



INDUSTRIAL DEGREASING SPRAY

Spray - 500 mL (16.9 oz)

Ref. 23912*

To remove glue leftover on metal. Manual spraying.



LUBRICATING

ENGRAVING GEL

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



Watch our videos!

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



SOLUBLE OIL

Bottle - 1 L (33.8 oz)

Ref. 12913

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



ENGRAVOLUBE SOLUTION

Bottle with spout - 240 mL (8 oz)

Ref. 26887

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



VARGOL

Bottle - 500 mL (16.9 oz)

Ref. 21780

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



VARGOL BOTTLE DISPENSER

Unit - 1 unit

Ref. 21781

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



TARFIL™ AT

Bottle - 215 g (7.58 oz)

Ref. 19526

Designed for ferrous metal engraving with local manual application.



VECTOLUB™ LUBRICANT OIL

Bottle - 2 L (67.6 oz)

Ref. 23494

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



POLYCOUPE™ LUBRICANT SPRAY

Spray - 250 mL (8.45 oz)

Ref. 19527*

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



SURFEX® LUBRICANT

Bottle - 1 L (33.8 oz)

Ref. 30368

For aluminium engraving and cutting only. Manual dispensing.

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



FIXING

Double-sided tapes



DOUBLE-SIDED 14 MM

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

Ref. 30369

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



DOUBLE-SIDED 19 MM

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

Ref. 85904

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



DOUBLE-SIDED 50 MM

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

Ref. 30372

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

Special tapes



PROTECTIVE ADHESIVE TAPE

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

Ref. 19528

To protect jewelry and brass plates while engraving.



ADHESIVE MOUNTING TAPE

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

Ref. 20151*

For temporary mounting of plates.



TRANSFER

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

Ref. 21121

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



Fixing glue



GRAVOFIX

Bottle - 250 mL (8.45 oz)

Ref. 19360*

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

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



SEMI-ADHESIVE SPRAY GLUE

Spray - 500 mL (16.9 oz)

Ref. 23914

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

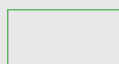
GRAVOGRIP™

Ref. 78056

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

Cut to size on request.

Available sheet sizes



1220 x 610 mm
48 x 24"



610 x 610 mm
24 x 24"



610 x 305 mm
24 x 12"



Watch our video!



Laser Wood accessories



MASKING PAPER

Unit - 1 unit

Ref. 83057

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

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



CLAMPS

Pack - 6 units

Ref. 83366

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

MECHANICAL FASTENINGS

Ball chains

BALL CHAINS



3 colours available.

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

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

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



NICKEL-PLATED BRASS W/ FASTENER

Pack - 100 units

Ref. 19534

Beads of 2.25 mm (0.088") diameter and 150 mm (5.91") length.



NICKEL-PLATED BRASS W/O FASTENER

Pack - 10 units

Ref. 19535

Beads of 2.25 mm (0.088") diameter and 1.5 m (59") length.



FASTENERS

Box - 100 units

Ref. 19536

To attach beads and close ball chains. Use with 2.25 mm (0.088") diameter ball chains.



S-HOOK RINGS

Ideal to fix all your medals and tags.



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

NICKEL-PLATED STEEL RING

Ideal to fix all your medals and tags.



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



Wooden supports



WOODEN SUPPORT

Unit - 1 unit

Ref. 19470

Wooden support to enhance engraved plates.

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

Composition: tropical hardwood. Indoor & outdoor use.

Screws and spacers

SCREWS



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

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

SPACERS



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

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

Stainless steel support

STAINLESS STEEL PIPE SUPPORT



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

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



COLLARS & HEADS

Unit - 25 m (27 yds) & 50 heads

Ref. 19551

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

Plant label holder



ALUMINIUM PLANT LABEL HOLDER

Unit - 1 unit

Ref. 30149

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



ZINC-PLATED STEEL PLANT LABEL HOLDER

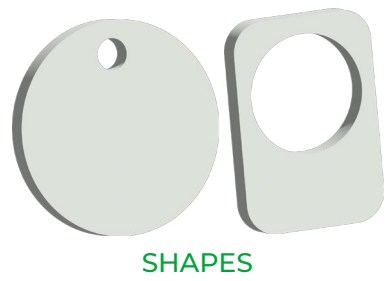
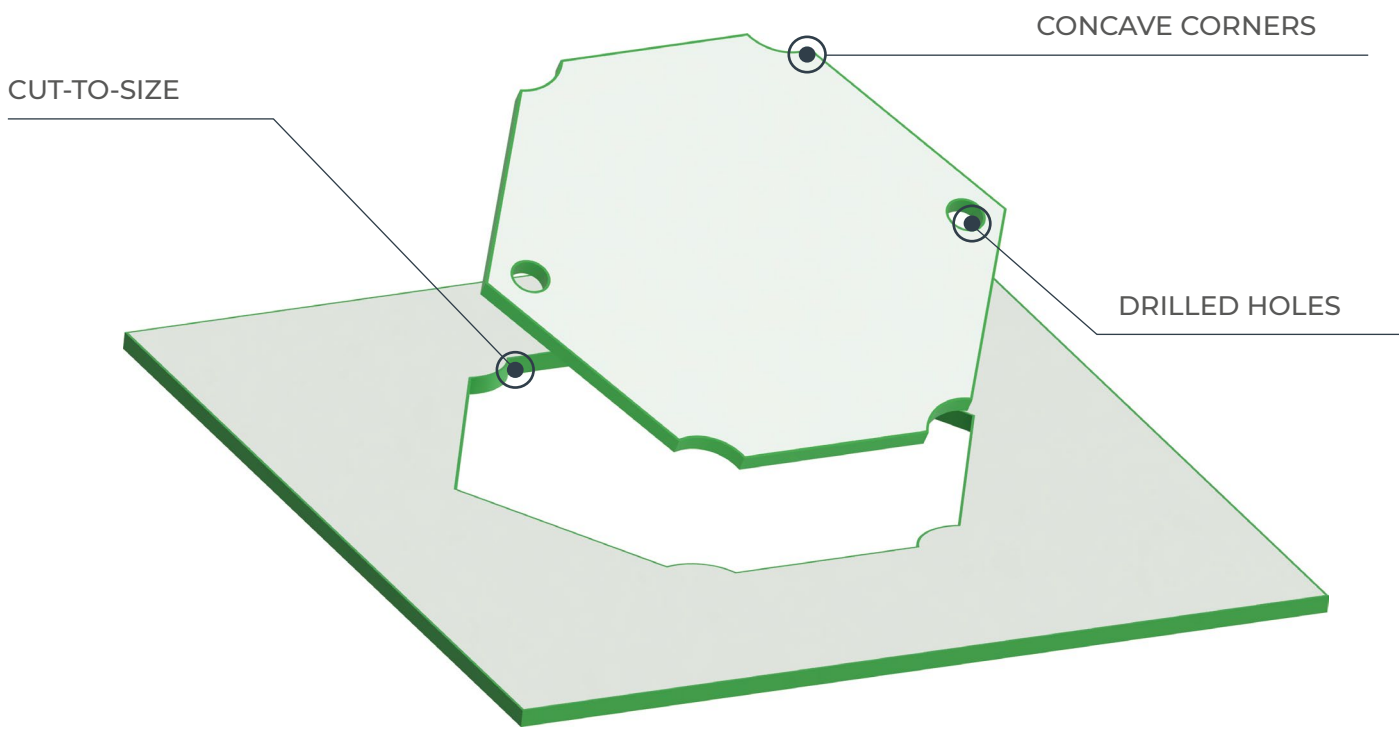
Unit - 1 unit

Ref. 30150

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

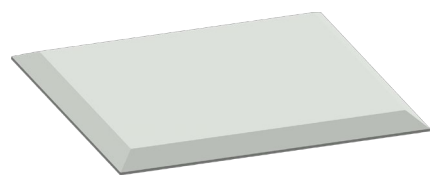
Is your machine not available to handle this new and urgent order?

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



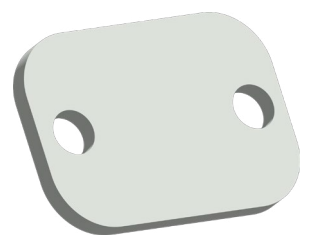
SHAPES

Custom shapes made to your specifications.



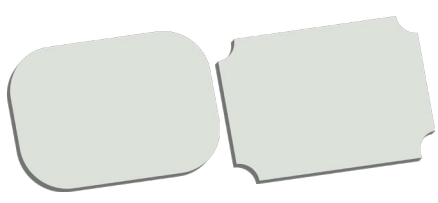
BEVELLING

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



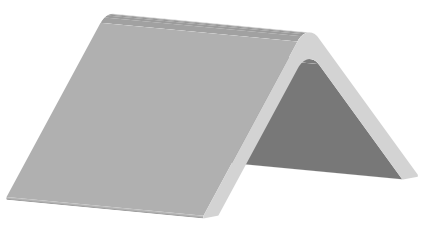
DRILLED HOLES

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



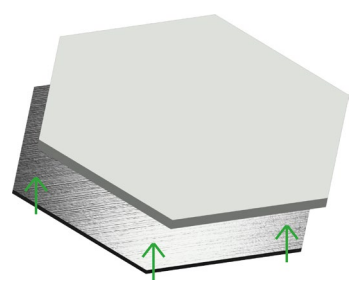
ROUNDED / CONCAVE CORNERS

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



BENDING

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



BACKING

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

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





ENGRAVABLES

CREATE YOUR OWN BADGES

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



Watch our videos!

Badges hardware with adhesive back



COMPACT MAGNETIC FASTENER

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



LARGE MAGNETIC FASTENER

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



SAFETY PIN

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



CLIP WITH SAFETY PIN

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

Badges hardware for heat fusing



SAFETY PIN

Unit - 1
Ref. 30355



CLUTCH

Unit - 1
Ref. 30358

Badges hardware to be glued

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



CLUTCH BAR

Pack - 20

Ref. 30362



SAFETY PIN

Pack - 50

42 x 8 mm (1.65 x 0.31")

Ref. 19345



PIN WITH CLUTCH

Pack - 50

Ø 11 mm (Ø 0.43")

Ref. 30363

GRAVOFIX

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

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



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



BADGES COLOURED PLASTIC FRAMES

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



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

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

DOOR PLATES

Premium solid brass door plates

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



MODEL A

| | |
|---------------------------|------------|
| 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.



MODEL U.2.



MODEL V.1.



MODEL V.2.

| | |
|----------------------------|------------|
| 150 x 50 mm (5.61 x 1.97") | |
| Unit - 1 | Ref. 48336 |

| | |
|----------------------------|------------|
| 150 x 50 mm (5.61 x 1.97") | |
| Unit - 1 | Ref. 48335 |

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

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



MODEL W.1.



MODEL W.2.



MODEL X.

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

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

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

GRAVOLAQUE

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

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



Watch our videos!

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

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

MEDALS

Anodized aluminium medals

Anodized aluminium medals with hole.

Can be diamond dragged, milled or laser engraved.

Golden and silver medals will result in a non-contrasting engraving with a CO2 laser.

Packaged by 10.



MEDAL A - LARGE BONE

25 x 38 mm
(0.98 x 1.49")



MEDAL B - SMALL BONE

19 x 32 mm
(0.74 x 1.25")



MEDAL C - LARGE PAW

35 x 33 mm
(1.37 x 1.29")



MEDAL D - SMALL PAW

28 x 26 mm
(1.1 x 1.02")



MEDAL E - LARGE HEART

32 x 32 mm
(1.25 x 1.25")



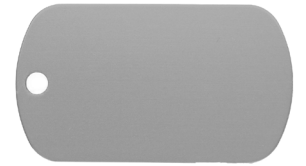
MEDAL F - SMALL HEART

25 x 25 mm
(0.98 x 0.98")



MEDAL G - SMALL
CIRCLE

25 x 25 mm
(0.98 x 0.98")



MEDAL H - MILITARY TAG

28 x 50 mm
(1.1 x 1.96")



MEDAL I - CLOVER

33 x 33 mm
(1.29 x 1.29")



MEDAL J - LARGE
CIRCLE

38 x 38 mm
(1.49 x 1.49")

MEDAL A - LARGE BONE

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

MEDAL B - SMALL BONE

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

MEDAL C - LARGE PAW

| Colour | Ref. |
|--------|-------|
| silver | 69305 |
| gold | 69306 |
| blue | 69307 |
| red | 69309 |

MEDAL D - SMALL PAW

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

MEDAL E - LARGE HEART

| Colour | Ref. |
|--------|-------|
| pink | 69273 |
| red | 69269 |
| gold | 69266 |
| silver | 69265 |

MEDAL F - SMALL HEART

| Colour | Ref. |
|--------|-------|
| silver | 69275 |
| gold | 69276 |
| red | 69279 |
| pink | 69283 |

MEDAL G - SMALL CIRCLE

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

MEDAL H - MILITARY TAG

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

MEDAL I - CLOVER

| Colour | Ref. |
|--------|-------|
| green | 69420 |

MEDAL J - LARGE CIRCLE

| Colour | Ref. |
|--------|-------|
| gold | 69336 |
| blue | 69337 |
| red | 69339 |
| black | 69344 |

BALL CHAINS

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

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

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

Brass medals

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

Includes one or several holes for fixing.

Can be diamond dragged, milled or laser engraved.

Use Gravotech colouring products to create a contrasted engraving.

MODEL A



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

MODEL B



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

MODEL C



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

MODEL D



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

MODEL E



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

MODEL F



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

Stainless steel medals

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

Use Gravotech colouring products to create a contrasted engraving.



MODEL G

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



MODEL H

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



MODEL I

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

Hotel key rings

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

Delivered individually.

RECTANGULAR HOTEL KEY RINGS



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

ROUNDED HOTEL KEY RINGS



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

ORNAMENTAL PLATES

Ornamental metallic plates

Natural steel or golden aspect ornamental plates.

Can be diamond dragged, milled or laser engraved. Includes 2 holes on the sides for fixing.

Dedicated to high value gifting, awards or artistic signage.

Packaged by 50 units.

GRAVOXAL™, NATURAL STEEL ASPECT



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

GRAVOMETALL™, GOLDEN ASPECT



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

METALLEX™



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

Auto-adhesive ornamental plates

Small rounded shaped Gravometall™ plates with adhesive back.

Can be diamond dragged, milled or laser engraved.

Dedicated to high value gifting, awards or artistic signage.

Packaged by 50 units.

SELF-ADHESIVE GRAVOMETALL™



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

KEY TAGS

Aluminium tags

Suitable for milling or laser engraving.
Initially dedicated to key tags but also very popular in industrial identification and signage.
Packaged by 10 units.



ROUNDED ALUMINIUM KEY TAGS

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

SHAPED ALUMINIUM KEY TAGS



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

RECTANGULAR ALUMINIUM KEY TAGS



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

Ties

NICKEL-PLATED STEEL RING



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

ELECTRICAL IDENTIFICATION

Legend plates type 440

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



TYPE 440 BLACK WHITE

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



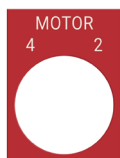
TYPE 440 WHITE BLACK

| 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") | | | 24.5 mm (0.96") | 19241 |



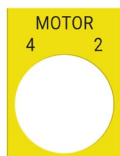
TYPE 440 RED WHITE

| 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") | | | 24.5 mm (0.96") | 22066 |



TYPE 440 BLACK WHITE RED

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



TYPE 440 WHITE BLACK YELLOW

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

Strips for electrical cabinets

To identify item lines on electrical cabinet doors or boards.

Minimum of order: 25 units.

Other dimensions, colors or materials available on demand.

STRIPS 610 X 10 MM

| | | | | | |
|--------------|----------------|---------|-------|-------------------------------|------|
| Bedroom 3 | Dining room | Kitchen | Study | Plug 1 st floor | Oven |
| room 2 | Dining room | Kitchen | Study | Plug 1 st floor | Oven |

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

STRIPS 610 X 15 MM

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

STRIPS 610 X 20 MM

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

STRIPS 610 X 30 MM

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

Labels for electrical items

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



LABELS 50 X 15 MM

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

LABELS 60 X 15 MM

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

LABELS 60 X 20 MM

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

LABELS 80 X 40 MM

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



CUTTERS

Gravotech cutters: engraving & cutting

TWINCUT SOLUTION

COMPOSE YOUR TOOL



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

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

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

ONECUT



Efficient and convenient

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

PERCUT



Productivity and endurance

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

DIAMONDS



Delicacy and precision

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

FIND THE RIGHT RANGE FOR YOUR MACHINE

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

FIND THE RIGHT SHAPE FOR YOUR WORK

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

Conical 22.5°

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

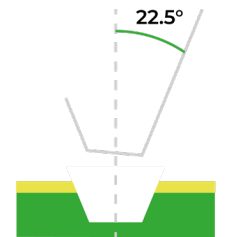
Recommended for

Phenolic, aluminium, brass

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

| 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 |



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.

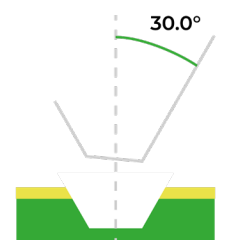
Recommended for

Gold, silver

Suitable for

Aluminium, brass and nickeled metal

| 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 |



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.

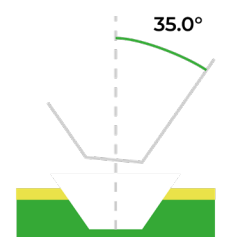
Recommended for

Steel, stainless steel and copper

Suitable for

Aluminium, brass and nickeled metal

| 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 |



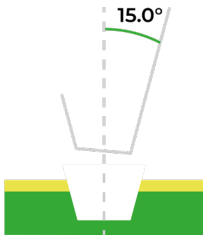
Conical 15.0°

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

Recommended for
Aluminium, brass, gold, silver

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

| T | inch | mm | Ref. |
|---------|--------|------|-------|
| carbide | | | |
| — | 0.013" | 0.32 | 48713 |



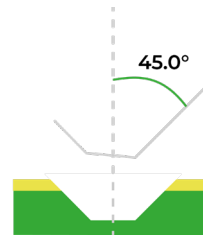
Conical 45.0°

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

Recommended for
Aluminium, brass, phenolic

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

| T | inch | mm | Ref. |
|---------|--------|------|-------|
| carbide | | | |
| — | 0.013" | 0.32 | 48925 |



1/4 rounded conical

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

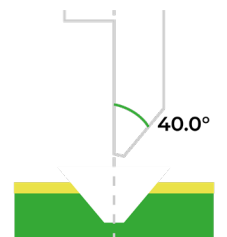
Recommended for

Copper, steel, stainless steel

Suitable for

Acrylics, aluminium, brass and nickeled metal

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



Conical double cone

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

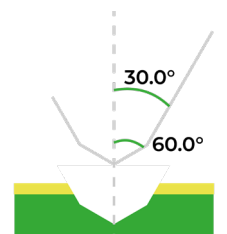
Recommended for

Copper, cast iron, steel, stainless steel

Suitable for

Acrylics, aluminium, brass

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







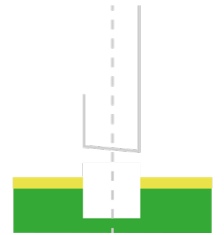
Flat end cylindrical

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

Recommended for
Phenolic, aluminium, brass

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

| 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 |








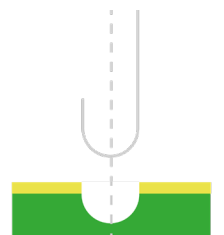
Round end cylindrical

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.

Recommended for
Acrylic

Suitable for
Aluminium, brass

| 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 |







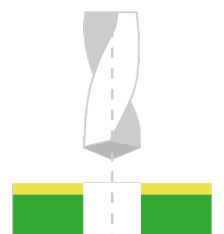
Drilling

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

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





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

| 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 |



Single lip

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

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

Recommended for

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





Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic



Double lips

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

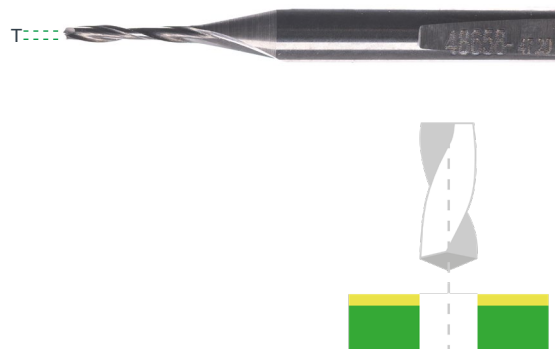
| T | inch | mm | Ref. |
|---|--------|------|-------|
| carbide | | | |
|  | 0.030" | 0.75 | 48657 |
|  | 0.040" | 1.00 | 48658 |
|  | 0.080" | 2.00 | 48659 |
|  | 0.100" | 2.50 | 48660 |

Recommended for

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

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic





Multilips

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

Recommended for

Phenolic, epoxy

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



Conical 22.5°

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

Recommended for

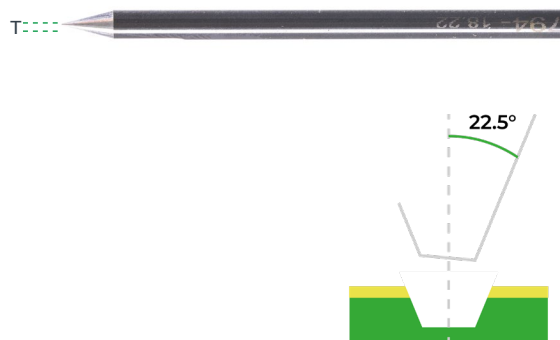
Gold, silver & phenolic for carbide

Suitable for

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

| 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 |



Conical 37.0°

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

Recommended for

Polypropylen (PP or PPI) toothbrush handle or others grades of floppy plastic

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

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



Conical 15.0°

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

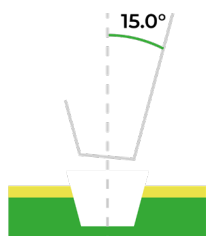
Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for

Gold, silver, aluminium, brass

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



Conical 45.0°

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

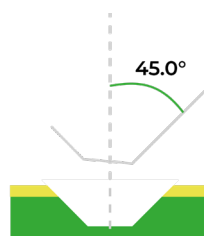
Recommended for

Phenolic, Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for





Gold, silver, aluminium, brass

| T | inch | mm | Ref. |
|---------|--------|------|-------|
| carbide | | | |
| — | 0.010" | 0.25 | 51368 |



Flat end cylindrical

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

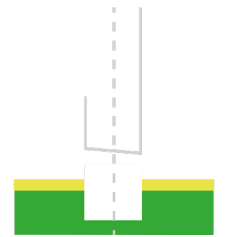
| T | inch | mm | Ref. |
|---|--------|------|-------|
| carbide | | | |
|  | 0.120" | 3.00 | 51372 |
| HSS steel | | | |
|  | 0.040" | 1.00 | 48783 |
|  | 0.080" | 2.00 | 48785 |
|  | 0.120" | 3.00 | 48787 |

Recommended for

Gold, silver, aluminium, brass, phenolic for carbide





Suitable for

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



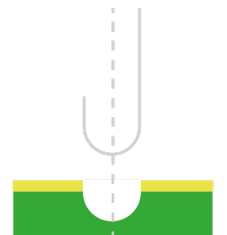
Round end cylindrical

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

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

Recommended for

Gravoglas™, Acrylic



Ready to grind

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

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



Conical 22.5°

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

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

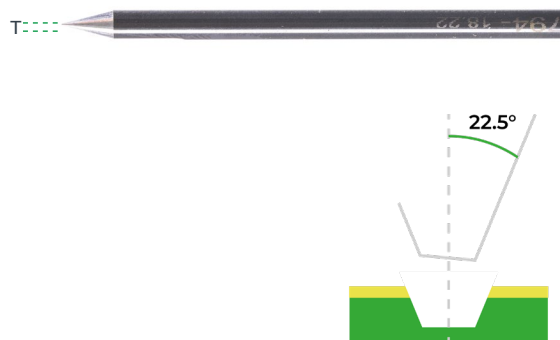
| T | inch | mm | Ref. |
|-----------|--------|------|-------|
| HSS steel | | | |
| — | 0.004" | 0.10 | 48808 |
| — | 0.010" | 0.25 | 48809 |
| — | 0.013" | 0.32 | 48810 |
| — | 0.020" | 0.50 | 48811 |
| — | 0.030" | 0.75 | 48812 |
| — | 0.040" | 1.00 | 48813 |
| — | 0.050" | 1.25 | 48814 |
| — | 0.060"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

Recommended for

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

Suitable for

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



Conical 15.0°

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

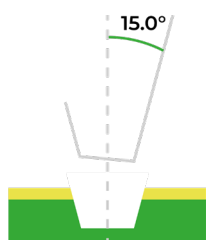
Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for

Gold, silver, aluminium, brass

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



Conical 45.0°

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

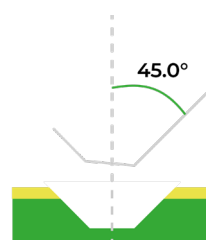
Recommended for

Gold/silver, aluminium, brass, phenolic

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

| T | inch | mm | Ref. |
|---------|--------|------|-------|
| carbide | | | |
| — | 0.010" | 0.25 | 21038 |



1/4 rounded conical

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

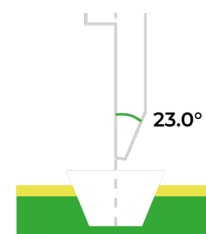
Recommended for

Copper, stainless steel & steel

Suitable for

Acrylic, anodized aluminium

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



Flat end cylindrical

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

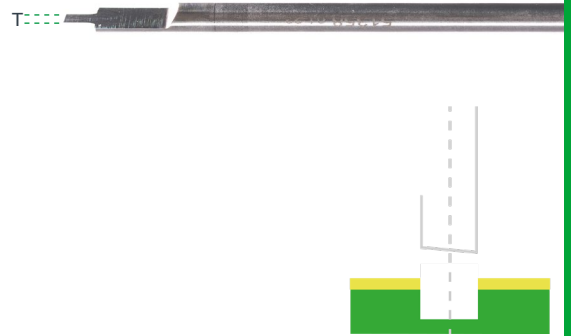
| T | inch | mm | Ref. |
|-----------|--------|------|-------|
| HSS steel | | | |
| — | 0.040" | 1.00 | 51355 |
| — | 0.060" | 1.50 | 51356 |
| — | 0.080" | 2.00 | 51358 |
| — | 0.100" | 2.50 | 51359 |
| — | 0.120" | 3.00 | 51360 |
| — | 0.160" | 4.00 | 48834 |

Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for

Gold, silver, aluminium, brass



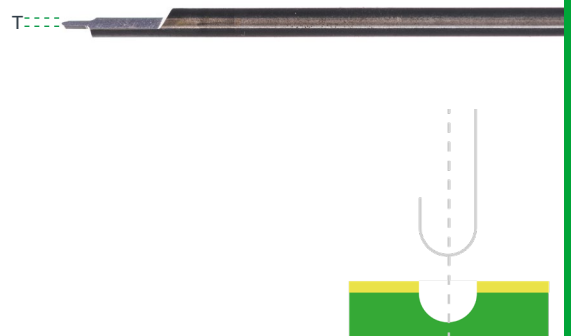
Round end cylindrical

This cutter 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.

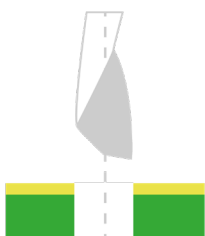
Recommended for

Aluminium, brass and laminated

Suitable for

ABS, acrylics

| T | inch | mm | Ref. |
|---------|--------|------|-------|
| carbide | | | |
| — | 0.080" | 2.00 | 80227 |



Helical (Braille)

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

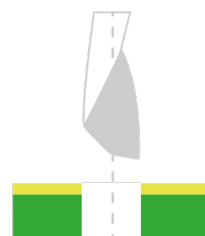
Recommended for

Acrylics

Suitable for

ABS, phenolic, anodized aluminium

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



Ready to grind

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

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

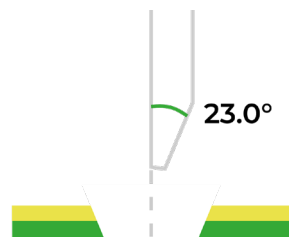


GRINDER

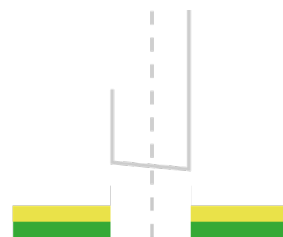
CG30 grinder allows to resharpen your engraving and cutting tools. It achieves a variety of shapes (see below) with an exceptional precision and quality. Collets not included.



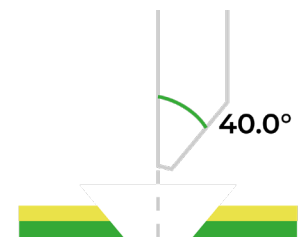
CG30 Grinder



Conical



Flat end cylindrical



1/4 rounded conical

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

Conical 23.0°








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

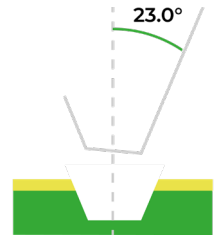
Recommended for

Phenolic

Suitable for

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

| 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 |



Conical 45.0°

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

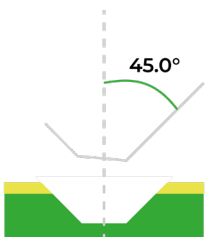
Recommended for

Phenolic

Suitable for

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

| T | inch | mm | Ref. |
|---|--------|------|-------|
| carbide | | | |
|  | 0.004" | 0.10 | 48846 |



Flat end cylindrical


Solid carbide cutting profile made for the B6 beveller machine.

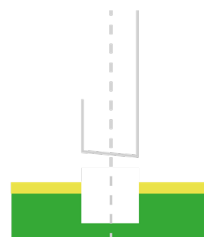
Recommended for

Phenolic

Suitable for

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

| T | inch | mm | Ref. |
|---|--------|------|-------|
| carbide | | | |
|  | 0.236" | 6.00 | 48847 |



Ready to grind

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

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



3/4 conical

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

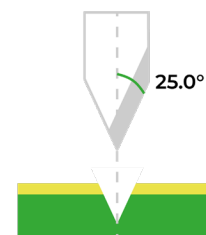
| T | inch | mm | Tool length | Ref. |
|---------|--------|------|-------------------|-------|
| carbide | | | | |
| — | 0.002" | 0.05 | 38 mm (1.496") | 70613 |
| — | 0.005" | 0.15 | 38 mm (1.496") | 70612 |

Recommended for

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

Suitable for

Aluminium, plastics, graphits



Conical helical

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

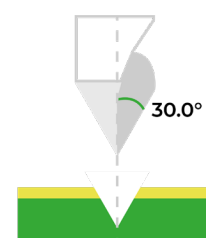
| T | inch | mm | Tool length | Ref. |
|---------|--------|------|-------------------|-------|
| carbide | | | | |
| — | 0.005" | 0.15 | 38 mm (1.260") | 23077 |

Recommended for

Aluminium, brass

Suitable for

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



Single lip (plastics)

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

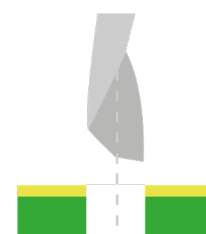
| T | inch | mm | Tool length | Cutting length | Ref. |
|---------|--------|------|-------------------|----------------------|-------|
| carbide | | | | | |
| — | 0.040" | 1.00 | 39 mm (1.535") | 4.00 mm (0.160") | 48736 |
| — | 0.080" | 2.00 | 39 mm (1.535") | 8.00 mm (0.315") | 48737 |
| — | 0.120"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

Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylics

Suitable for

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



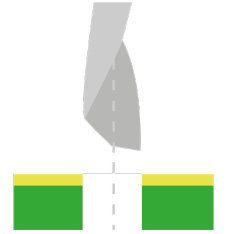
Single lip (metals)

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

Recommended for
Aluminium, brass

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

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



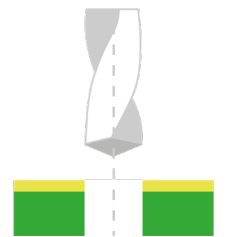
Double lips

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

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

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

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



Triple lips (alu/brass)

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

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

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

Triple lips (steel)

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

Recommended for
Steel, stainless steel

Suitable for
Aluminium, brass

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



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



Conical with double recess

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

Recommended for

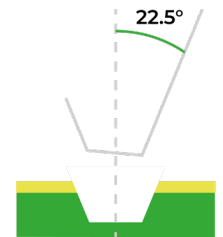
Gravoply™, Metallex™, Gravoglas™, Acrylic, phenolic

Suitable for

Aluminium, brass, gold, silver

| 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 |

T:---



Single lip (plastics)

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

Recommended for

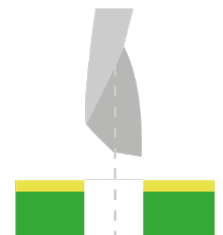
Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for

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

| 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 |

T:---



Single lip (metals)

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

Recommended for

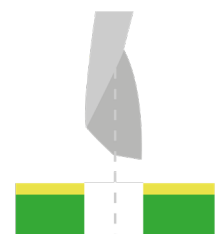
Aluminium, brass

Suitable for

Gravoply™, Metallex™, Gravoglas™, Acrylic

| 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 |

T:---



Double lips (plastics)

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

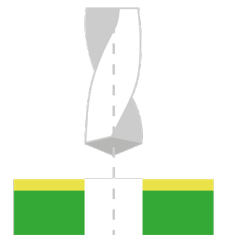
| T | inch | mm | Tool length | Cutting length | Ref. |
|---------|--------|------|----------------|-------------------|-------|
| carbide | | | | | |
| ■ | 0.160" | 4.00 | 50 mm (1.968") | 12.00 mm (0.472") | 23072 |

Recommended for

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

Suitable for

Aluminium, brass and others aluminium derived products (ACM)



Double lips (metals)

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

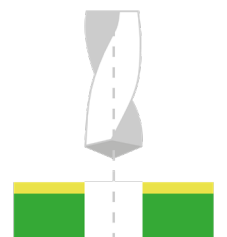
| T | inch | mm | Tool length | Cutting length | Ref. |
|---------|--------|------|----------------|-------------------|-------|
| carbide | | | | | |
| ■ | 0.080" | 2.00 | 38 mm (1.496") | 4.00 mm (0.160") | 48770 |
| ■ | 0.120" | 3.00 | 38 mm (1.496") | 14.00 mm (0.551") | 48771 |
| ■ | 0.160" | 4.00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

Recommended for

Aluminium, brass and other aluminium derived products (ACM)

Suitable for

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



Triple lips

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

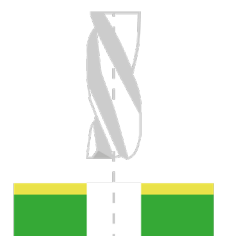
| T | inch | mm | Tool length | Cutting length | Ref. |
|---------|--------|------|----------------|------------------|-------|
| carbide | | | | | |
| ■ | 0.080" | 2.00 | 25 mm (0.984") | 4.00 mm (0.160") | 23079 |

Recommended for

Aluminium

Suitable for

Brass



Conical helical

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

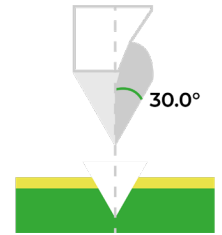
| T | inch | mm | Tool length | Ref. |
|---------|--------|------|----------------|-------|
| carbide | | | | |
| — | 0.005" | 0.15 | 57 mm (2.244") | 23091 |

Recommended for

Aluminium, brass

Suitable for

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



Conical with double recess

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

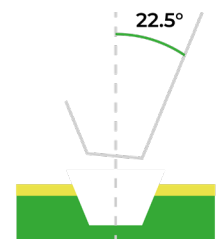
| T | inch | mm | Tool length | Cutting length | Ref. |
|---------|--------|------|----------------|------------------|-------|
| carbide | | | | | |
| — | 0.013" | 0.32 | 57 mm (2.244") | 8.00 mm (0.315") | 48762 |
| — | 0.020" | 0.50 | 57 mm (2.244") | 8.00 mm (0.315") | 48763 |
| — | 0.050" | 1.25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

Recommended for

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

Suitable for

Aluminium, brass, gold, silver



Single lip

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

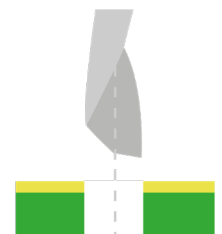
| T | inch | mm | Tool length | Cutting length | Ref. |
|---------|--------|------|----------------|-------------------|-------|
| carbide | | | | | |
| — | 0.080" | 2.00 | 50 mm (1.968") | 7.00 mm (0.275") | 48748 |
| — | 0.120" | 3.00 | 50 mm (1.968") | 10.00 mm (0.400") | 48749 |
| — | 0.160" | 4.00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

Recommended for

Gravoply™, Metallex™, Gravoglas™, Acrylic

Suitable for

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



Double lips

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

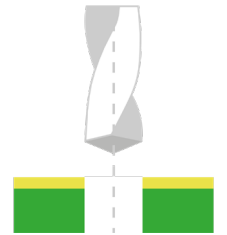
| T | inch | mm | Tool length | Cutting length | Ref. |
|---------|--------|------|----------------|------------------|-------|
| carbide | | | | | |
| ■ | 0.080" | 2.00 | 50 mm (1.968") | 6.00 mm (0.236") | 48772 |
| ■ | 0.120" | 3.00 | 50 mm (1.968") | 6.00 mm (0.236") | 70610 |
| ■ | 0.160" | 4.00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

Recommended for

Aluminium, brass and other aluminium derived products (ACM)

Suitable for

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



Triple lips

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

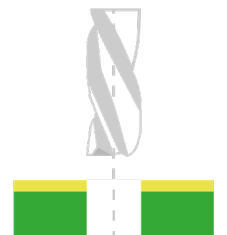
| T | inch | mm | Tool length | Cutting length | Ref. |
|---------|--------|------|----------------|------------------|-------|
| carbide | | | | | |
| ■ | 0.080" | 2.00 | 50 mm (1.968") | 4.00 mm (0.160") | 71765 |
| ■ | 0.120" | 3.00 | 50 mm (1.968") | 6.00 mm (0.236") | 71766 |
| ■ | 0.160" | 4.00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

Recommended for

Steel, stainless steel and other ferrous metals

Suitable for

Aluminium, brass



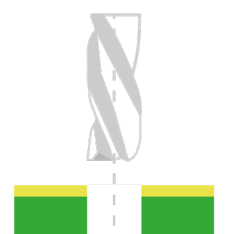
Four lips

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

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

Recommended for

Steel, stainless steel



Conical rotative 90°

Onecut 3.17 mm

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

Recommended for Gold, silver, aluminium, brass
Suitable for Glass, mirror, steel, stainless steel

Rotating diamond:



Designed for Feather Touch use

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



Faceted rotative 110°

Onecut 3.17 mm

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

Recommended for Glass, crystal
Suitable for Mirror

Rotating diamond:



Designed for Feather Touch use

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



Conical non-rotative 126.5°

Onecut 3.17 mm

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

Recommended for Gold, silver
Suitable for Aluminium, brass, glass, mirror

Rotating diamond:



Designed for Feather Touch use

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



Diamond insert non-rotative

Onecut 3.17 mm

Diamond insert dedicated to jewelry and gift personalization.

Recommended for Gold, silver, aluminium, brass
Suitable for Glass, mirror, steel, stainless steel

Rotating diamond:



NOT designed for Feather Touch use

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



Faceted rotative 110°

Onecut 4.36 mm

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

Recommended for Glass, mirror, aluminium, brass
Suitable for Steel, stainless steel

Rotating diamond:



Designed for Feather Touch use

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



Faceted rotative 120°

Onecut 4.36 mm

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

Recommended for Glass, crystal, mirror
Suitable for Aluminium, brass, gold, silver

Rotating diamond:



Designed for Feather Touch use

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



Faceted rotative 126.5°

Onecut 4.36 mm

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

Recommended for

Aluminium, brass, 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 personalisation and mechanical part identification in aluminium, brass, nickeled metals, steel and stainless steel.

Recommended for

Aluminium, brass, gold, silver

Suitable for

Glass, crystal, steel, stainless steel

Rotating diamond:



Designed for Feather Touch use

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



Diamond ball

Onecut 4.36 mm

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

Recommended for

Granite

Suitable for

Glass, mirror, stone

Rotating diamond:



Designed for Feather Touch use

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

Conical non-rotative 130°

Onecut 6.35 mm

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

Recommended for

Precious, ferrous, non ferrous

Suitable for

Glass, crystal, mirror metals

Rotating diamond:



NOT designed for Feather Touch use

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



Faceted rotative 120°

Twincut

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

Recommended for

Aluminium, brass, 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 |



Stylus for test prior to engraving

ASSEMBLED STYLUS BIT

Unit - 1 unit

Ref. 21679



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

CROSS STYLUS REFILL

Unit - 1 unit

Ref. 12374



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

Twincut starter kits

TOOL HOLDER

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

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

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



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

EJECTOR

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



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

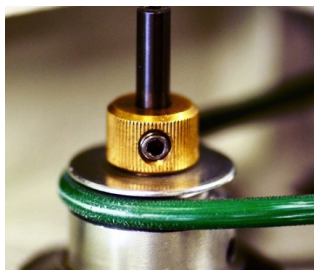


KNOB KEY

Unit - 1 unit

Ref. 10016

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



CUTTER KNOB

Unit - 1 unit

Ref. 12335

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



STEEL BLOCK

Unit - 1 unit

Ref. 13798

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



BRUSH

Unit - 1 unit

Ref. 11791

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

M20 v3, M40 & IS ENGRAVING STARTER KITS

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



Watch our videos!



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

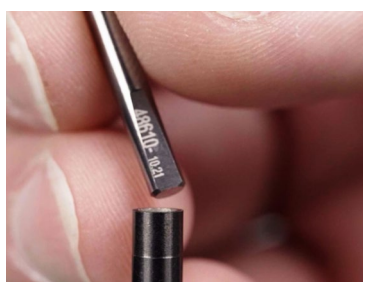
Discover the Twincut tools with our starter kit

What's in the kit ?



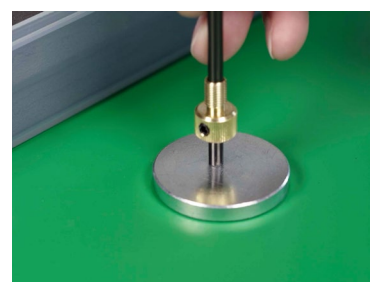
Moving towards a first engraving: step by step

#1



Place the insert in the tool holder.

#2



Gently tap on the steel block.

#3



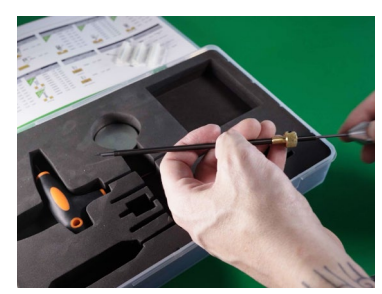
Install your tool in the machine.

#4



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

#5



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

Keep the box to store your tools! ←

See our video





MACHINE ACCESSORIES

CYLINDRICAL ATTACHMENT JIGS

Jigs for jewel rotary device



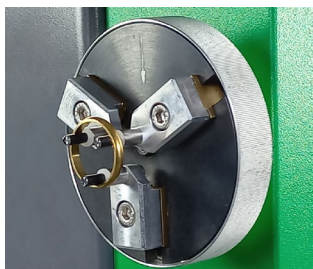
STANDARD RING JIGS

Ref. 12500

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

Pack of 1

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



PREMIUM RING JIGS

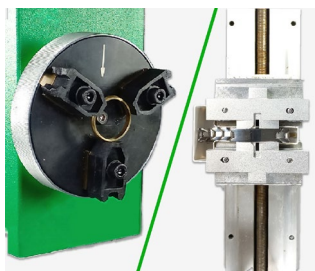
Ref. 49951

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

Pack of 3

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

Dedicated kits



JEWEL KIT

Ref. 81993, 81993

Machine compatibility: M20
v3 Pen

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



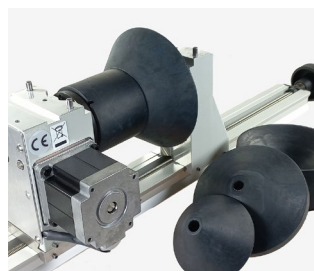
PEN KIT

Ref. 81377

Machine compatibility: M20
v3 Jewel

Includes pinches for pens
and a tailstock.

To engrave any pen of any
diameter.



BOTTLE KIT

Ref. 46674

Machine compatibility: M40,
M40 DV

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

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



LARGE CYLINDER CHUCK

Ref. 23527

Machine compatibility:
IS400 Volume

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

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



OUTSIDE RING KIT

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

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



CUP KIT

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

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

FLAT JIGS

Easy clamping



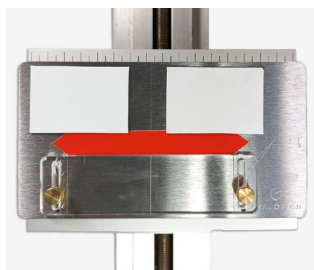
UNIVERSAL JIGS

Ref. 20196

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

Sliding pins & lateral stop.

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



GRAVOFOIL™ JIGS

Ref. 22868

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

Metallic plate with 2 magnets.

Engrave very flexible materials like Gravofoil™ or Flexilase™.



ROUGH CELERON JIGS

Ref. 10179

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

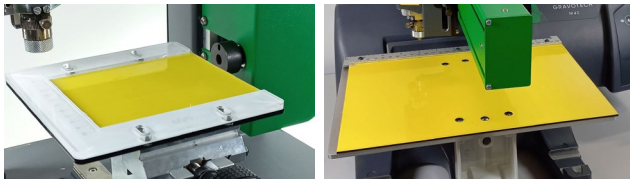
Shape your own jigs.

Jigs to be machined to the desired shape.

GRAVOGRIP™ TABLES

Double-sided, flexible and naturally adhesive material: no need for clamping, tape nor vacuum table.

A time saver tool for engraving and cutting jobs on plastic or metallic materials.

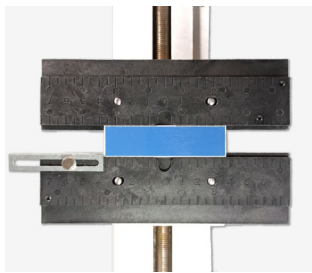


Gravogrip™ table M20

Gravogrip™ table M40

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

Signage - Electrical



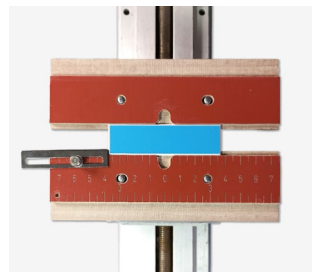
MEDIUM PLASTIC JIGS

Ref. 27215

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

Length: 150 mm (5.9")

For badges, labels or electrical strips.



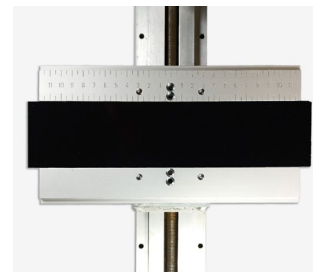
MEDIUM CELERON JIGS

Ref. 10165

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

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

For delicate flat items: labels, medals.



ELECTRICAL JIGS

Ref. 21131

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

Length: 240 mm (9.5")

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



EXTRA LARGE ALUMINIUM JIGS

Ref. 20191

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

Length: 310 mm (12.2")

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



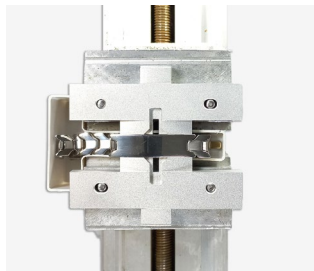
SMALL PLASTIC JIGS

Ref. 48091

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

Length: 90 mm (3.54")

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



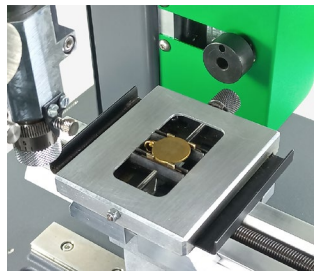
STANDARD JEWELLERY JIGS

Ref. 28192

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

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

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



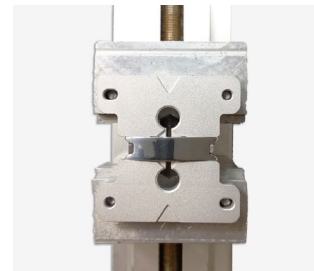
PREMIUM JEWELLERY JIGS

Ref. 22870

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

Automatically center the product in X and Y.

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



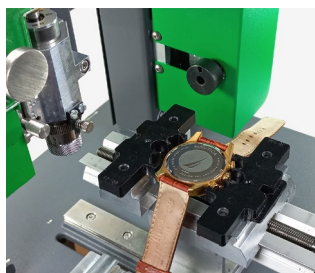
CHAIN PENDANTS JIGS

Ref. 77320

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

Holes to pass the chain through.

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

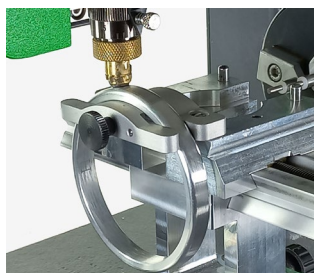


WATCHES JIGS

Ref. 10182

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

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



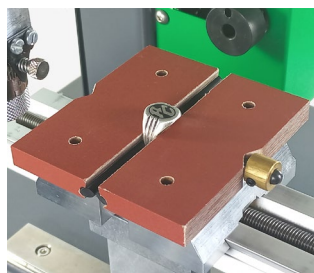
RIGID BRACELET JIGS

Ref. 77961

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

To install on the right or left of the vice.

For rigid bracelets that cannot be held in standard jigs.



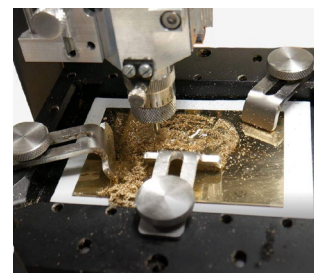
SIGNET RING JIGS

Ref. 20194

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

Includes rubber protection strips.

Easily engrave signet rings without the risk of scratching.



CUTTING JIGS

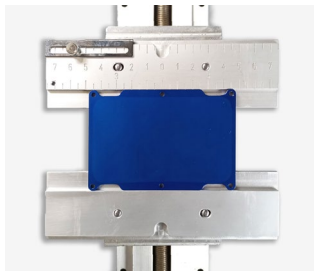
Ref. 84897

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

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

For cutting thin metal plates.

Gift and small items



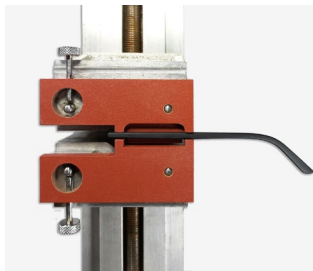
MEDIUM ALUMINIUM JIGS

Ref. 20189

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

l = 150 mm (5.9")

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



GLASS FRAME JIGS

Ref. 20190

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

Screws to set 2 different widths along the jigs.

Designed especially for eyeglass frame. Adjustment for flared temples.

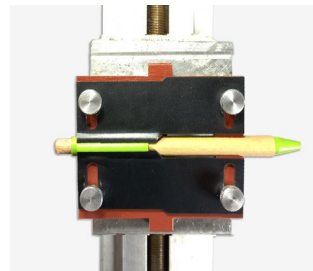


PEN JIGS

Ref. 10169

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

For pen bodies or tubular items.



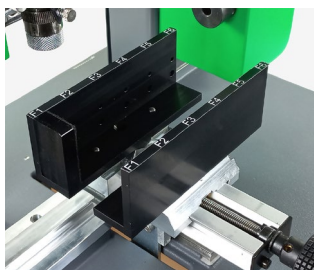
CLIP PEN JIGS

Ref. 20842

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

Specific feature for the pen clips.

Engraving of clip and pen body.



COSMETIC JIGS

Ref. 81152

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

Designed to easily clamp perfume bottles and cosmetics.



SWISS ARMY KNIFE JIGS

Ref. 28067

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

Designed to engrave the sides of Swiss army knives.

Funerary



FUNERARY JIGS

Ref. 47697

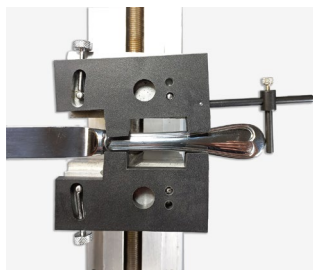
Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

l = 164 mm (6.5")

Dedicated to funeral applications:

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

Tableware



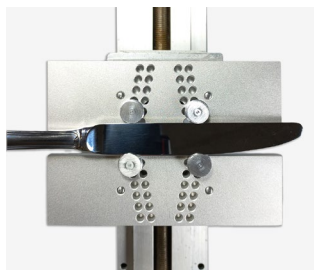
SILVERWARE JIGS

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



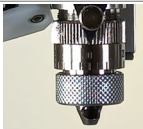
Machine compatibility: IM3, M20 v3, M20, M40, IS200, IS400, ISx000, WeLase™

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") | 22.5° | IM3, M20 v3, M20, M40, IS200, IS400, ISx000 | 20130 |
| Nose 1.5 mm |  | Recommended for Metallex™ | 0.32 mm (0.013") | | | 20131 |
| Nose 2.3 mm |  | General use | 0.75 mm (0.030") | | | 20132 |

STANDARD NOSES LARGE FONT



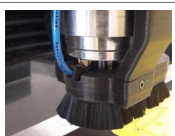
| | | Key features | Max. truncation | Recommended max. tool cone | Machine compatibility | Ref. |
|------------------------|---|---|---------------------|----------------------------|--|-------|
| Nose 2.5 mm |  | For bevelling and medium fonts | 0.75 mm (0.030") | 45° - 60° | IM3, M20 v3, M20, M40,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

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

CURVED ITEM NOSES

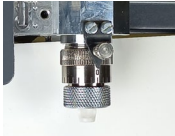


| | | Key features | Max. truncation | Recommended max. tool cone | Machine compatibility | Ref. |
|------------------------------|---|--|------------------|----------------------------|---|-------|
| Vacuum swivel nose 2.5 mm |  | To follow shapes on glass bottle engraving. Rotating or non-rotating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

COLLET SPINDLE NOSES


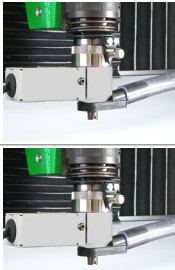
| | | Key features | Max. truncation | Recommended max. tool cone | Machine compatibility | Ref. |
|-------------------------------|---|--|------------------|----------------------------|-----------------------|-------|
| Swivel vacuum nose 2.50 mm |  | To perfectly follow the profile of the part on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






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 |



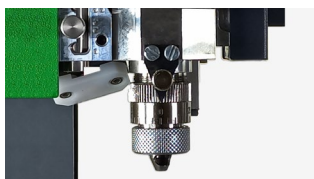
SPINDLES

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

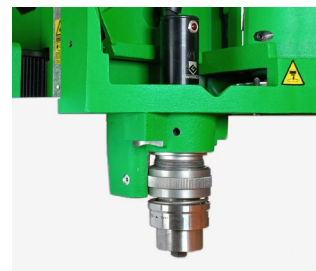
Ref. 14763



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.

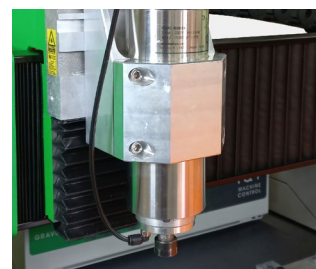
| | Machine compatibility | Key features | Ref. |
|--------------------|-----------------------|--------------|-------|
| HF spindle - 150 W | IS400, ISx000 | Europe | 47474 |
| | | UK | 47475 |
| | | Switzerland | 47476 |
| | | US / Japan | 47477 |
| | | China | 76289 |



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 |





MECHANIK MUNTELIER
CH - 3286 MUNTELIER
TYP: VA 1 230 V ~ 0,120
60 Hz
350 W
15,000 U/min
Made in Switzerland

LAME SCIE
REF 16807



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 m ³ /h | M20, M40, IS200 | EU plug | 47642 |
| | | | | | UK plug | 47643 |
| | | | | | Swiss plug | 47644 |
| | | | | | US Plug | 47645 |
| | | | | | China plug | 76107 |



LARGE CHIP COLLECTOR

Floor stand unit.

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

| Weight | Dimensions (L x W x H) | Max. static pressure | Max. air flow | Machine compatibility | Key features | Ref. |
|---------------------|---|----------------------|----------------------|-----------------------|--------------|-------|
| 23 kg (50.71 lb) | 290 x 290 x 540 mm (11.4 x 11.4 x 21") | 7.3 kPa | 25 m ³ /h | IS200, IS400, ISx000 | EU plug | 49262 |
| | | | | | UK plug | 49263 |
| | | | | | Swiss plug | 49264 |
| | | | | | US Plug | 49265 |
| | | | | | Japan plug | 64939 |
| | | | | | China plug | 76108 |



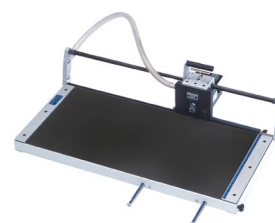
Saws

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

VA10 SAW

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

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

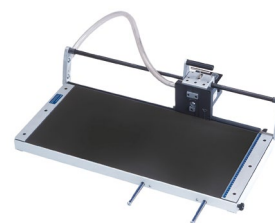


VA10/11

VA11 SAW

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

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



VA10/11

VA21-15 SAW



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

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



VA21-15

SAW BLADES

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

GUILLOTINES

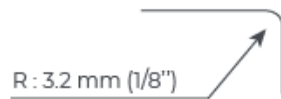
Guillotines are an alternative to saws, their benefits are cutting precision and quality, speed of operation, noise and possibility to cut very small pieces.

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

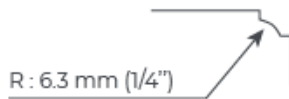
| | Dimensions (L x W x H) | Max. plastics thickness | Max. metals thickness | Ref. |
|-----|-------------------------------------|-------------------------|-----------------------|-------|
| CSP | 530 x 380 x 240 mm (21 x 15 x 9.5") | 2.4 mm (3/32") | N/A | 20198 |
| CSM | 530 x 380 x 240 mm (21 x 15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



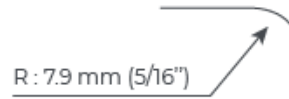
Ref. 14500



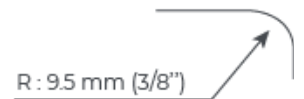
Ref. 14501



Ref. 14502



Ref. 14508



VA2 BEVELLER

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

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

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



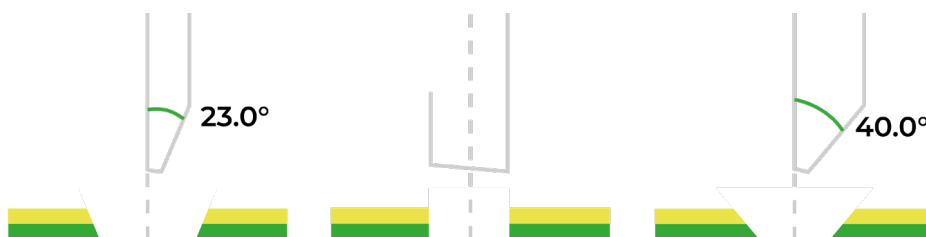
OTHER ACCESSORIES

GRINDER

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



CG30 Grinder



Conical

Flat end cylindrical

1/4 rounded conical

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

GRINDING WHEEL

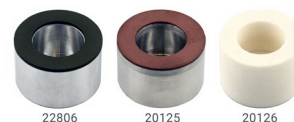
The right grinding wheel depends on the cutter raw material to sharpen.

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

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

For steel cutters, use Corundum wheel.

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



COLLET FOR CG30

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

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



Gravotech service offer

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



COMMISSIONING

AT YOUR DOORSTEP

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



TRAINING

TAILORED SESSIONS

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



SERVICING

EXPERTISE

Machine fleet audit and maintenance recommendations.

PREVENTIVE SERVICES

Necessary care to maximize your machine lifetime.



TECHNICAL SUPPORT

PHONE ASSISTANCE

Gravotech experts dedicated to support and guide you.

REMOTE ASSISTANCE

Video or screen sharing sessions available on demand.

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

Our services





MACHINES & SOFTWARE



CNC TABLES

IS200

IS400 / IS400 VOLUME

ISx000

Small signage and identification engraving machine

One of a kind metal engraving machine

The large format CNC engraving machine

| | | | |
|---------------------------|--------------------------|---|--|
| 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

M10 JEWEL

M20

M40/M40GIFT

The iconic pantograph by Gravotech

Compact ring and bracelet engraving machine

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

Multi-purpose rotary engraving machine for signage and gifts

| | | | | |
|---------------------------|--|---|--|--|
| Application scope | ●● | ● | ●●●● | ●●●● |
| Technology | Rotary, diamond dragging | Diamond dragging | Rotary, diamond dragging | Rotary, diamond dragging |
| Marking area max. (L x H) | 250 x 140 mm (9.9 x 5.5 in) | - | 100 x 100 mm (4 x 4 in) | 305 x 210 mm (12 x 8 in) |
| Spindle power | - | - | 30 W | 30 W |
| Max. object height | 50 mm (2 in) | ∅ 12.5 - 80 mm (0.5 x 3.15 in) | 100 mm (4 in) | 110 mm (4.3 in) |
| Dimensions (L x W x H) | 580 x 510 x 280 mm (22.8 x 20 x 11 in) | 230 x 293 x 290 mm (9 x 11.5 x 11.4 in) | 375 x 350 x 360 mm (14.8 x 14 x 14.2 in) | 550 x 510 x 320 mm (21.7 x 20 x 12.6 in) |

APPLICATION SCOPE :

- Identification
- Personalisation
- Signage
- Creative
- Manufacturing





LS100

CO2 laser engraver for signage, creative cutting, and personalisation



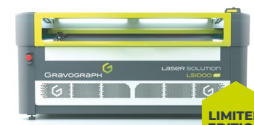
LS100EX

The signage and small series laser engraving machine



LS900

The large laser engraver that can do everything



LS1000XP

Large laser engraving and cutting machine for high productivity

LIMITED EDITION

| | | | | |
|---------------------------|-----------------------------------|---|---|----------------------------|
| Application scope | ●●● | ●●● | ●●● | ●●●● |
| Laser source | CO2 | CO2, Fiber | CO2, Fiber, Edge | CO2 |
| Power (W) | 25 - 40 - 60 | CO2: 25 - 40 - 60 CO2 Energy: 25 Fiber: 20 - 30 | CO2: 40 - 60 - 80 Fiber: 20 - 30 - 50 Edge: (CO2: 40 / Fiber: 20 - 30 - 50) | 60 - 80 - 100 - 150 |
| Marking area max. (L x H) | 460 x 305 mm (18 x 12 in) | 610 x 305 mm (24 x 12 in) | 610 x 610 mm (24 x 24 in) | 1220 x 610 mm (48 x 24 in) |
| Lenses (in) | 1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0 | 1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0 | 1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0 | 2.0 - 3.0 - 4.0 |
| Max. object height | 145 mm (5.7 in) | 145 mm (5.7 in) | 250 mm (9.8 in) | 300 mm (11.8 in) |



WELASE™

Small laser engraving station



LW2

Fully automated laser marking station



IMPACT

Benchtop dot peen marking station

| | | | | |
|---------------------------|---|--|---------------------------|--|
| Application scope | ●● | ●● | Application scope | ● |
| Laser source | Fiber, Hybrid, Green, CO2 | Fiber, Hybrid, Green | Technology | Dot peen, Pneumatic or Electromagnetic |
| Use rate | Adapted for small to medium batches | Fully automatic Adapted for high use rate | Software | Integrated traceability software with colour touchscreen |
| Marking area max. (L x H) | 110 x 110 mm (4.3 x 4.3 in) | Up to 205 x 205 mm (8 x 8 in) | Marking area max. (L x H) | 100 x 120 mm (4 x 4.7 in) |
| Max object Height | Fiber, Hybrid, Green: 100 mm (4 in) CO2: 180 mm (7 in) | Up to 322 mm (12.7 in) | Z axis stroke | 300 mm (11.8 in) |
| Max object Weight | 3 kg (6.6 lbs) | 25 kg (55 lbs) | Z axis type | Manual or Motorized & programmable |

RANGE OF INTEGRATED EXHAUST DEVICES



ES MINI

ES10

ES30

LE120HP/
LE140HP

LE150HP

LNI900

LE190HP

| | | | | | | | |
|-----------------------------------|---------|-----------------|-----|-------|---------|-------|----------|
| Max. air flow (m ³ /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 |



XF510p

The fastest pneumatic dot peen marking machine on the market



XF510m

The precise and consistent electromagnetic dot peen marking machine



XF510r

The quiet metal marking machine



XF530

Deep and indelible dot peen marking

INTEGRABLE DOT PEEN & SCRIBING

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



XCOM

CONTROL UNIT

CONNECTED TOUCH-SCREEN CONTROLLER

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



INTEGRABLE LASER MARKERS

FIBER

Integrated laser marking system for metal and plastic parts

HYBRID

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

GREEN

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

CO2

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

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

APPLICATION SCOPE :

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

- Identification
- Personalisation
- Signage
- Creative
- Manufacturing



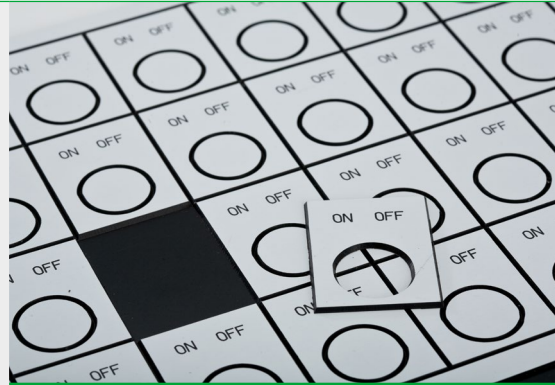
Our applications





GRAVOSTYLE

LEVELS



DISCOVERY

DISCOVERY MAX

Laser + Rotary

Laser + Rotary

Go hybrid. Drive laser & rotary technology.

Productivity package

Features

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

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

Options

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

- Text on a curve

Applications

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

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

Features

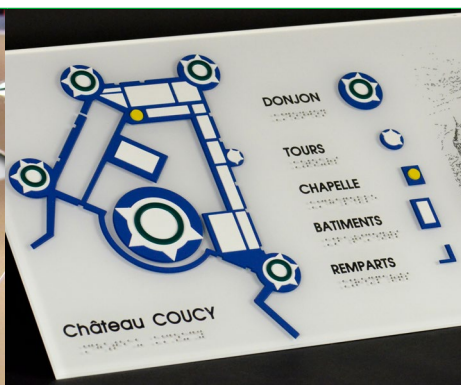
- Computip feature to recommend the most efficient tools
- Support for Automatic Plate Feeding applications
- Support for cylindrical engraving
- Customisation of working environment

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

IN ALL LEVELS



THE UNIQUE SOFTWARE FOR LASER AND ROTARY ENGRAVING MACHINES



INDUSTRY

GRAPHIC

3D

| Laser + Rotary | Laser + Rotary | Laser + Rotary |
|---|--|---|
| <p>Power, precision & productivity</p> <ul style="list-style-type: none"> • 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 | <p>Unleash creativity</p> <ul style="list-style-type: none"> • 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) | <p>Take your engraving to a new dimension</p> <ul style="list-style-type: none"> • 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 |
| <ul style="list-style-type: none"> • Barcodes, Datamatrix, QR Code® and UID - unique identification with variables management | <ul style="list-style-type: none"> • 2.5D toolpath for jewellery/metal stamps and intaglio for signage • Laser toolpath management for deep marking | |
| <ul style="list-style-type: none"> • Rating plates • Control panels • Part identification & traceability • Circuit boards • Linear and 2D barcodes • Paper and cardboard cutouts with laser | <ul style="list-style-type: none"> • Advanced photo lasering • Model making • Marquetry • Hot stamping • Award design and production • Printed signage cutout • Signs conception | <ul style="list-style-type: none"> • 3D signage • Displays • Embossing/debossing dies • Food molds • Furniture decoration • Models & prototypes • Award & recognition • Commemorative |

Learn more :



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



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

LASER MATERIALS

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



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

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

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

METALLICS MATERIALS

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

TECH TIPS

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

Gravogrip™ :

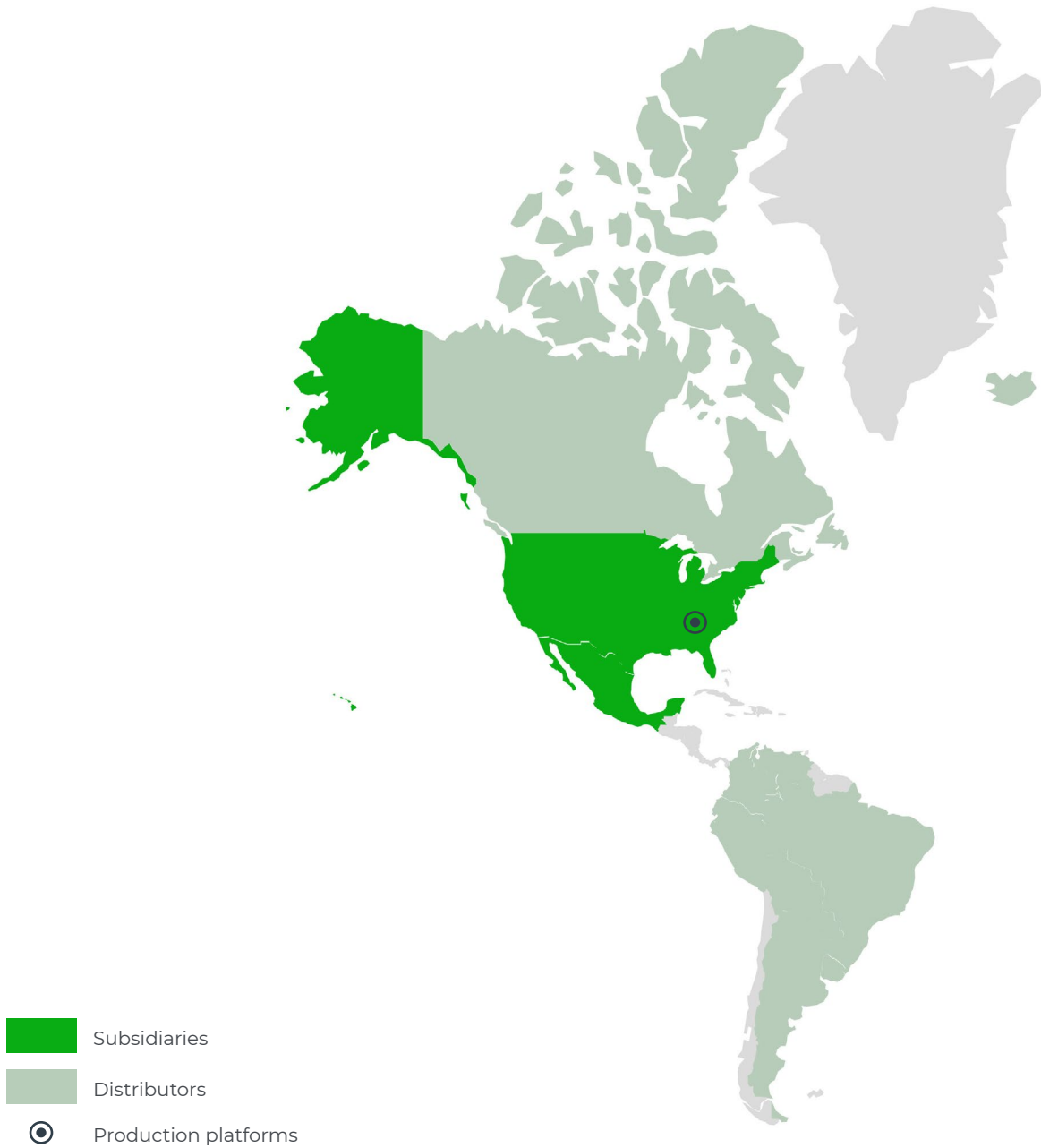
- Use Gravogrip™ when engraving on thin materials as they can have uneven surfaces.
- Avoid using too much power when engraving to prevent damage to the Gravogrip™ plate.

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



Global reach

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



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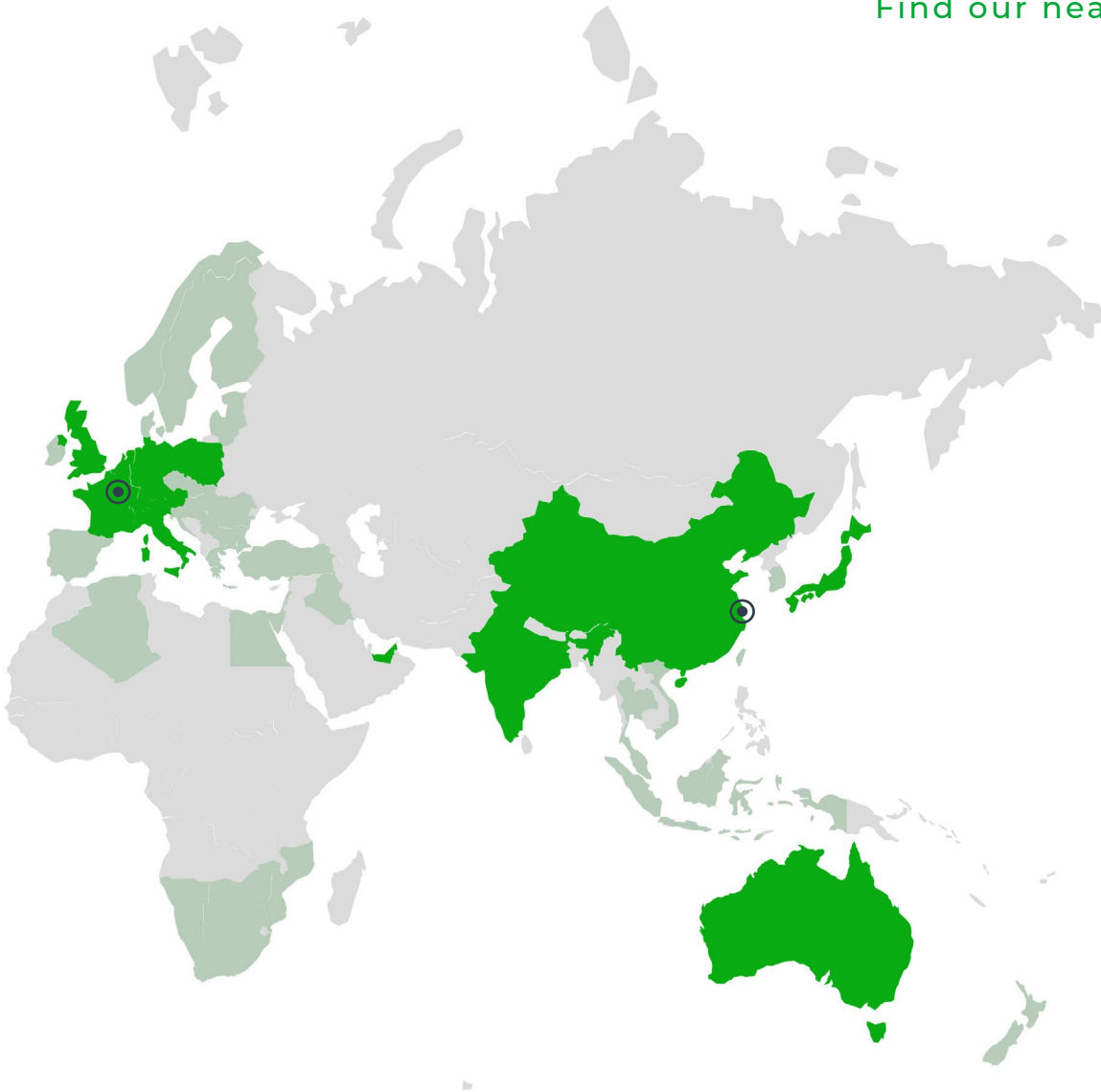
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GRAVOTECH
E X P R E S S I O N O F T H I N G S

Gravotech Group (Corporate Headquarters)

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

+33.4.78.55.85.50
contact@gravotech.com

CONTACT



www.gravotech.com