GRAVOGRAPH

MATERIALS CATALOGUE

innovative
solutions
for

engraving
& marking

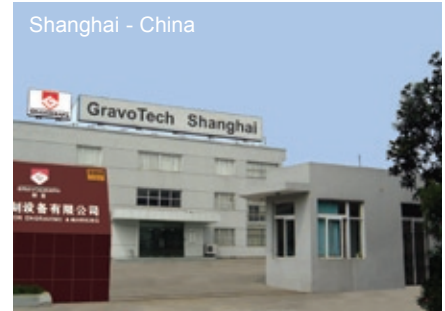MACHINES

SERVICES

ACCESSORIES

SOFTWARE

THE GRAVOGRAPH TOTAL SOLUTION

Over 25 global subsidiaries serving customers worldwide...

Troyes - France

Duluth, Georgia - USA

Shanghai - China

A Culture of *Excellence*

Gravograph is the world's leading manufacturer of marking solutions, offering a full range of equipment: C.N.C. (Computer Numerical Controlled) engraving machines, CO_2, Fibre and Yag lasers, engraving materials, consumables and services. For over 60 years, **Gravograph** has remained the industry benchmark thanks to its high quality equipment.

This success is built on three fundamentals:
- A primary focus on our customers' needs,
- Continually delivering state of the art solutions,
- Efficient customer service from over 800 employees worldwide.

Gravograph team members are based in over 40 countries around the world, working around the clock to provide you with the best possible solutions for your marking, engraving and cutting needs as quickly as possible.

The **Gravograph** difference is founded on:

- **A complete solutions approach:** the Gravograph product offer lends itself to a full range of personalisation, signage and traceability applications,
- **A complete technology solution:** machines, software, accessories and consumables,
- **A compete technical support solution:** readily available field and telephone technical support,
- **A complete training solution:** training on-site or on Gravograph premises, phone support from engraving experts.

The comprehensive **Gravograph** product line includes:

- The world's largest and most innovative range of C.N.C. machines,
- State of the art CO_2, Yag and Fibre laser engraving systems,
- Versatile micro percussion marking systems
- Innovative software dedicated to the engraving industry, designed to optimise Gravograph machines,
- The most comprehensive range of materials and engravables on the market,
- Responsive in-house fabrication services.

A cornerstone in the total solution concept is GravoStyle™, **Gravograph**'s single software platform for both C.N.C. machines and lasers. This new generation software enables users to switch engraving technologies and applications without changing software programme.

Gravograph develops and markets the world's highest quality and most durable marketing solutions, exceeding engraving industry standards for product and service performance. Our quality management system ensures that our products and services are continuously improved, and that all of our team members are dedicated to ensuring the best possible setvice.

For the latest catalogue updates, visit our website: www.gravograph.com

CONTENTS

MATERIALS SELECTION GUIDE

LASER	ROTARY	INDOOR	OUTDOOR	SURFACE	SUBSURFACE
Laser engraving	Rotary engraving	Indoor use	Outdoor use	Surface engraving	Subsurface engraving

ROTARY ENGRAVING OR LASER ENGRAVING

WHAT WILL BE THE FINAL APPLICATION OF THE PRODUCT?

ROTARY ENGRAVING

Tactile Braille legislation compliant signage*	Other signage, badges, or identification for flat surfaces	Product identification or labelling for curved or flexible surfaces	Award plaques or trophy plates

LASER ENGRAVING

Tactile Braille legislation compliant signage*	Other signage, badges, or identification for flat surfaces	Product identification or labelling for curved or flexible surfaces	Award plaques or trophy plates

INDOOR — ROTARY ENGRAVING

BRAILLE*	PLASTIC / METAL	PLASTIC / METAL	PLAQUES
GravoTac	Gravoply 1 Gravometall	Gravoply Ultra Gravoxal	Gravoply Ultra
Gravoglas 2 (matt)	Metallex Gravostral	Gravolase Metallics Gravoxal Premium	Colored Aluminum
	Gravoply Ultra Gravoxal	Gravofoil	Trophy Brass
	Gravoply 2 Gravoxal Premium	Gravoply Laser	Gravostral
	Gravoply 3C Gravobrass Exterior		Gravoxal
	Gravoglas 2		Gravolase Metallics
	GravoTac		Gravometall
	Gravostrat		
	Gravoply Laser		
	Gravoglas 1		

INDOOR — LASER ENGRAVING

BRAILLE*	PLASTIC / METAL	PLASTIC / METAL	PLAQUES
GravoTac	Gravoply Ultra Gravoxal	Gravoply Ultra AlumaMark	Gravoply Ultra
Gravoglas 2 (matt)	Gravoply 2 Gravoxal Premium	Gravolase Metallics	Gravoxal
	Gravolase Metallics AlumaMark	Gravoply Laser	Gravolase Metallics
	Metallex Gravometall (black)	Stickalase	Gravometall (black)
	Gravoply Laser		
	Acrylic		

OUTDOOR — ROTARY ENGRAVING

BRAILLE*	PLASTIC / METAL	PLASTIC / METAL	PLAQUES
GravoTac Exterior	Gravoply Ultra Gravobrass Exterior	Gravoply Ultra	Gravoply Ultra
	Gravoglas 1 Gravoxal	Gravofoil	
	Gravoglas 2 Gravoxal Premium		

OUTDOOR — LASER ENGRAVING

BRAILLE*	PLASTIC / METAL	PLASTIC / METAL	PLAQUES
GravoTac Exterior	Gravoply Ultra Gravoxal	Gravoply Ultra	Gravoply Ultra
Gravoglas 2	Gravoglas 1 Gravoxal Premium		
	Gravoglas 2		
	Acrylic		

* Any material of 1.5 mm thickness (or more) may be used for Braille applications.

WHAT MAKES OUR MATERIALS THE BEST

There are several reasons why Gravograph is the best source for engraving materials. We have the most experience in the industry, as well as the greatest number of resources to help you meet your material needs. Our special-order capabilities and unparalleled QUALITY are the greatest reasons to buy your materials from us.

Quality is a somewhat vague word. Therefore, it is important that we highlight the unique characteristics which make our materials second to none.

RAW MATERIALS
All of our raw materials are 100% prime. This means that we do not use any regrinds. We only use virgin materials. This means consistent thickness and consistent colour, which means consistent engraving performance.

CAP CONSISTENCY
Customers who have used both our material and competitive material continually applaud our cap consistency. This didn't happen by accident. We extrude the cap and core separately, then laminate the layers together days after each layer has cooled and solidified. Each layer is continually monitored with an advanced "gamma backscatter gauge" during the entire extrusion process. Final samples are manually "gauged" after extrusion. The cheaper way to produce the material is to marry the layers together while they are in the extrusion process. This is referred to as "co-extrusion". (See figure A). Problems with this method arise because the products are still in a molten state at this stage. While you can maintain a consistent overall thickness, the thickness of each individual layer cannot be accurately maintained.

FIGURE A

COLOUR CONSISTENCY
We only use colour concentrates that are controlled to less than $1\Delta E$ (a variance of $2\Delta E$ qualifies as a commercial colour match). A precise method of metering the colour concentrate is also employed. During extrusion, the opacity is periodically tested with a calibrated densitometer, which gives a numerical value of opacity that is compared to the master value. Finally, the finished product is compared to colour masters (which are classified by colour and surface finish), under Macbeth colour inspection lights.

INDOOR/OUTDOOR
Our versatile indoor/outdoor materials are UV stabilised to ensure they maintain their original colour even in the toughest environments.

SHEET FLATNESS
Gravograph uses an in-line extrusion process, which means the material has never been in roll form. This process removes the inherent curling tendencies of rolled product. Then, the lamination process is controlled (through even temperature distribution) to produce a final flat sheet.
More importantly, all our 2-ply indoor materials are actually 3-ply materials. The problem inherent with 2-ply indoor materials stems from the fact that the cap and core are made of different materials. This is true of all major engraving sheet-stock providers (not just Gravograph). In this situation, the materials are pressed completely flat during the heated lamination process. Since the two different materials have different expansion/contraction characteristics, the final product tends to curl a little as it cools. To overcome this problem, we actually put a cap on each side of the core. This layering technique balances the "pulling" from each cap, and the result is a sheet that lays perfectly flat. Therefore, when you purchase a sheet of red/white Gravoply, the sheet is actually constructed with a red cap, over a white core, over another white cap. (See Figure B) Our outdoor sheet stock (Gravoglas 2) does not require this triple layer effect, because the cap and the core are actually made of identical modified acrylic.

FIGURE B
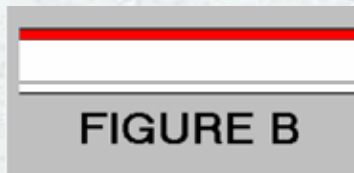
WHY DO YOU CARE?
We understand the importance of colour consistency, but perhaps you've never considered cap consistency as a very important trait.
Well, how many times have you had to re-run a job because half-way through completion, the cutter didn't reach all the way through the cap? It's especially frustrating after a large matrixed job runs for over an hour, and you return only to find out the job has to be re-run. Trying to engrave deeper to compensate can add wear to your cutter, reduce your productivity, and "bleed" characters together. How much time have you spent trying to make a "bowed" sheet lay flat? When creating raised letter signage, how many times when weeding the profile material from the base material has it snapped into numerous little pieces requiring extra time to clean? It all comes down to the old saying: "time is money".

It is worth the extra effort to provide a quality product which reduces problem engraving and maximises your bottom line.

KNOW YOUR PLASTICS

GRAVOPLY LASER (p. 14) **NEW**

New Gravoply Laser is both laser and rotary engravable. An acrylic core with a foil cap designed for detailed engraving and a clean cut. Excellent for indoor signage. A range of 80 material references, including 6 base colours and 25 surface colours, in 2 thicknesses and 3 finishes. Many excellent value references available at a lower price. Reduce your overall inventory value by stocking just one product line for all your 2-ply indoor needs.

GRAVOLASE METALLICS (p. 16)

Similar in appearance to the Metallex product line, Gravolase Metallics use a core of laserable solid DR plastic. DR is a special formulation of a modified acrylic best known for its laserability. Available in either a flexible 0.5 mm or a sturdy 1.6 mm overall thickness.

GRAVOPLY 1 (p. 18)

One of our most popular products, Gravoply 1 is constructed with a long-lasting 0.3 mm cap layer, perfect for almost any indoor application. Very good for many demanding industrial applications.

GRAVOPLY 2 (p. 22)

The micro thin 0.1 mm foil cap of Gravoply 2 allows for very fine detailed engraving. Perfect for small text and/or intricate logos required of many indoor applications. Available in a wide range of colours, thicknesses and surfaces finishes. We also propose Gravoply 2 Gloss which has a glossy clear protective cap layer.

GRAVOPLY 3C (p. 25)

This 3-ply material is constructed with 3 layers to be engraved from one side. Its unique composition allows you to create a 3-colour interior sign with your engraver. Engrave to 0.1 mm to expose the first core, and to 0.3 mm to expose the second core. Perfect for safety signs and signs with logos.

METALLEX (p. 26)

A plastic that looks like metal. Save weight and expense for all your indoor metallic applications. Ideal for creating signage, badges, trophy and funeral plates. Available with a matt, glossy or satin finish. Metallex Gloss has an added, ultra glossy, clear, protective cap over the metallic foil – designed for the ultimate in scratch resistance.

STICKALASE (p. 28)

Available in white/black or black/silver. This 0.09 mm thick, adhesive backed laserable plastic is perfect for bar-codes, trophy plates and labelling on surfaces that are not flat. Sold in 120 mm x 10 m rolls.

RUBBALASE (p. 28)

This natural rubber is perfect for creating high quality rubber stamps with a CO_2 laser machine. The odourless version ensures reduced odour emissions in the workshop during the engraving process. Sold in sheet form.

GRAVOSTRAT (p. 29)

A phenolic-based material. This very rigid, fibrous product is scratch-resistant, has fire-retardant qualities and resists many chemical agents. The ideal material for your industrial identification.

GRAVOTAC and GRAVOTAC EXTERIOR (p. 37) **NEW**

GravoTac creates raised letter signage compliant with Braille DDA regulations. The raised letter process is also a great way to create multi-coloured signage. The design of GravoTac provides the core (substrate) and cap (profile) layers separately. Available in many colour combinations, for indoor and outdoor signage needs.

GRAVOPLY ULTRA (p. 38)

Our most versatile product yet. This micro-cap product allows fine, detailed engraving and its solid plastic cap offers overall durability. UV stable, Gravoply Ultra can be used indoors and outdoors. Even better, this 2-ply product can be engraved with a rotary or laser engraver. Available in a variety of thicknesses, with many matt and satin surface finishes to choose from.

GRAVOGLAS 1 (p. 40)

This cast acrylic 2-ply is designed exclusively for subsurface engraving, and should be coloured after engraving. Gravoglas 1 allows for fine, detailed engraving and offers perfect cutting quality. Suitable for both rotary and laser engraving technologies, for indoor and outdoor use. Perfect for applications such as professional plates. Gravoglas 1 proposes conventional colours for the identification of pipes in the industrial sector (AFNOR NF 08-002 and INRS ED 88 norms).

GRAVOGLAS 2 (p. 42)

A 2-ply acrylic product, with a 0.3 mm surface offering excellent UV and scratch resistance. Suitable for both surface and subsurface engraving, for indoor and outdoor use. Available with a matt, glossy or textured surface.

ACRYLIC (p. 45) **NEW**

Clear, cast acrylic available in several thicknesses. Offers a perfectly polished edge when cut with a CO2 laser. Ideal for trophies and professional plates. Can be surface and subsurface engraved. Add a coloured plate to the back of your engraving to achieve a colour contrast.

GRAVOFOIL (p. 46)

This very thin, adhesive backed product is designed for use with a rotary engraver. Its very flexible, PVC construction makes it suitable for many product applications like industrial signage or permanent labels for use even on curved surfaces. Resistant to many chemical agents, making it ideal for use in demanding industrial environments.

KNOW YOUR METALS

GRAVOMETALL (p. 30)

Excellent for a variety of indoor applications. Gravometall has a thin protective lacquer coating to protect the surface from oxidising over time. Black Gravometall can be laser engraved to reveal a gold colour contrast. Gold, bronze and silver Gravometall can be coloured with paint or Gravoxide (see p.65).

GRAVOBRASS EXTERIOR (p. 31)

Gravobrass Exterior is a solid, raw brass typically used for office building exteriors, commonly called "Doctor Plates", and commemorative plates. To protect the brass from ageing and oxidising, it will be necessary to coat the final engraved, paint-filled plate with an exterior-grade clear lacquer.

GRAVOXAL (p. 32) and GRAVOXAL PREMIUM (p. 33)

Gravoxal and Gravoxal Premium are solid sheets of outdoor quality, anodised aluminium. Anodisation colours the actual metal to a depth of 0.1 mm, making it more durable than a painted surface. Gravoxal is perfectly anodised and protected on one side; Gravoxal Premium on both sides. The aluminium composition achieves excellent results in rotary cutting and engraving, making these materials ideal for industrial applications such as front panels, ID plates and labels. Dark surface colours also offer excellent results when marking with a laser.

GRAVOSTRAL (p. 34)
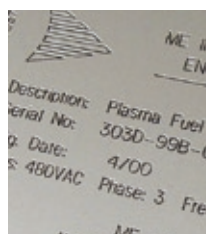
The 0.3 mm aluminium caps cover a black phenolic core. Perfect for quality interior metal signage, you can engrave one or two sides according to the desired finish. No need to paint fill this metal product after engraving. This product can save you time and money.

ALUMAMARK (p. 35)

This special line of anodised aluminium produces black characters when marked with any standard CO_2 laser engraver. The chemical reaction created when laser marking obtains a black mark directly. No oxidation or paint fill needed. Available in satin silver and satin gold, in 0.127 mm and 0.5 mm thicknesses. Also available with adhesive backing. Suitable for ID plates and bar code applications.

COLORED ALUMINUM (p. 36) NEW

This aluminium has been coloured with a polyester-based paint. It is the preferred choice for economical trophy plates. The surface is sublimation-receptive for dye-sublimation transfers. Its clear masking enables you to print your dyes directly for easier clean up. Sublimation images work best with the white, silver or gold colours.

TROPHY BRASS (p. 36) NEW

An economical brass alternative for signs, trophy plates, awards and plaques, designed for use with a rotary or laser engraving machine. Trophy Brass can provide you with the rich appeal of engraved brass without the associated cost.

MATERIAL SPECIFICATIONS

	Use	Material	Surface	Method of engraving	Engraving depth
GRAVOPLY LASER	Indoor	Modified Acrylic	Matt	Rotary/Laser	0.1mm / .004"
GRAVOLASE METALLICS	Indoor	Modified Acrylic	Brushed/Glossy/Matt	Rotary/Laser	0.1mm / .004"
GRAVOPLY 1	Indoor	ABS	Satin/Matt/Textured	Rotary	0.3mm / .012"
GRAVOPLY 2	Indoor	ABS	Matt/Glossy	Rotary	0.1mm / .004"
GRAVOPLY 3C	Indoor	ABS	Matt	Rotary	0.1mm / 0.3mm .004"/.012"
METALLEX	Indoor	ABS	Matt/Glossy	Rotary/Laser	0.1mm / .004"
STICKALASE	Indoor	Plastic	Matt	Laser	0.025mm / .001"
RUBBALASE	Indoor	Rubber	Matt	Laser	-
GRAVOSTRAT	Indoor	Phenolic	Low Glare	Rotary	0.3mm / .012"
GRAVOTAC	Indoor	Modified Acrylic	Matt	Rotary	1.1mm / .043"
GRAVOMETALL	Indoor	Brass	Matt/Satin/Glossy	Rotary/Burnish/Diamond/Laser	Rotary 0.1mm .004"
GRAVOBRASS EXTERIOR	Indoor/ Outdoor	Brass	Glossy/Satin	Rotary	0.2mm / .008"
GRAVOXAL	Indoor	Aluminium	Matt/Glossy	Rotary/Diamond/Laser	Rotary 0.1mm .004"
GRAVOXAL PREMIUM	Indoor	Aluminium	Matt/Glossy	Rotary/Diamond/Laser	Rotary 0.1mm .004"
GRAVOSTRAL	Indoor	Phenolic	Matt/Satin	Rotary	0.3mm / .012"
ALUMAMARK	Indoor	Aluminium	Matt/Satin	Laser	0.025mm / .001"
COLORED ALUMINUM	Indoor	Aluminium	Satin/Glossy	Rotary/Diamond	Rotary 0.2mm .008"
TROPHY BRASS	Indoor	Brass	Satin/Glossy	Rotary/Burnish/Diamond	Rotary 0.2mm .008"
GRAVOTAC EXTERIOR	Indoor/ Outdoor	ABS	Matt/Glossy	Rotary/Laser	0.025mm / .001"
GRAVOPLY ULTRA	Indoor/ Outdoor	Modified Acrylic	Matt	Rotary/Laser	0.1mm / .004"
GRAVOGLAS 1	Indoor/ Outdoor	Acrylic	Glossy	Rotary/Laser	0.2mm / .008"
GRAVOGLAS 2	Indoor/ Outdoor	Modified Acrylic	Matt/Glossy/Textured	Rotary	0.3mm / .012"
GRAVOFOIL	Indoor/ Outdoor	PVC	Matt	Rotary	0.025mm / .001"
ACRYLIC	Indoor/ Outdoor	Acrylic	Glossy	Rotary/Laser	Varies

Due to print variations, material colours represented in this catalogue may vary slightly from actual colours.

TWINCUT cutter recommended	Grinding angles clearance/cutting		Cutter type	Lubrication required	Saw	Shear	Bend	Stamp	Screen
48608 - 48618	40	30	Carbide	N				■	■
48608 - 48618	40	30	Carbide	N	■	■	■	■	■
48608 - 48618	40	30	Carbide	N	■	■	■	■	■
48608 - 48618	40	30	Carbide	N	■	■	■	■	■
48608 - 48618	40	30	Carbide	N	■	■	■	■	■
48608 - 48618	38	30	Carbide	N	■	■	■		
-	-	-	Laser	N/A		■		■	■
-	-	-	Laser	N					
48608 - 48618	38	30	Carbide	N	■			■	■
48608 - 48618	40	30	Carbide	N	■	■	■		
48608 - 48618	40	30	Carbide	30368		■			■
48608 - 48618	40	30	Carbide	N	■			■	■
48608 - 48618	40	30	Carbide	30368		■			■
48608 - 48618	40	30	Carbide	30368		■			■
48608 - 48618	38	30	Carbide	30368	■				■
-	-	-	Laser	N		■			■
48608 - 48618	40	30	Carbide	30368		■			■
48608 - 48618	40	30	Carbide	N		■			■
48608 - 48618	38	30	Carbide	N	■	■	■	■	■
48608 - 48618	40	35	Carbide	N	■		■	■	■
48608 - 48618	40	35	Carbide	N	■		■		
48608 - 48618	40	35	Carbide	N	■		■		
48608 - 48618	38	30	Carbide	N		■			■
48608 - 48618	N/A	N/A	Carbide	N	■		■	■	■

FABRICATION SERVICES
SAVE TIME AND MONEY

Bevelling
Bevelling is the cutting of an attractive angular edge to create a border. Our standard bevel is at a 45° angle.
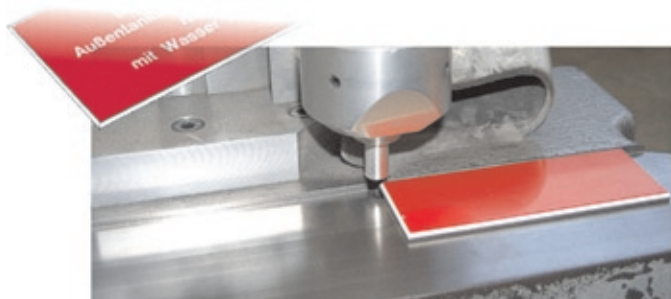
Rounded corners
We offer a wide selection of different radii for rounded corners.
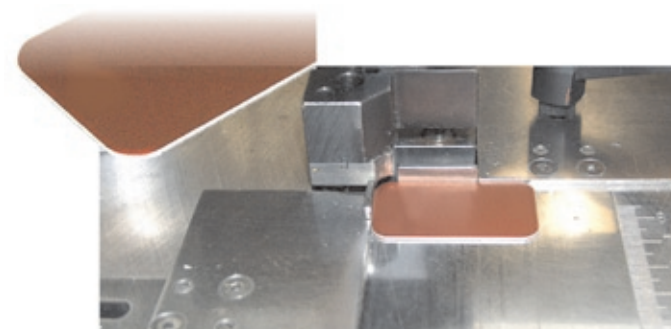
corners rounded to your specifications

Drilling holes
To accommodate your mounting needs in plastic and metal.
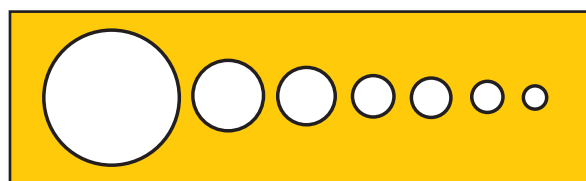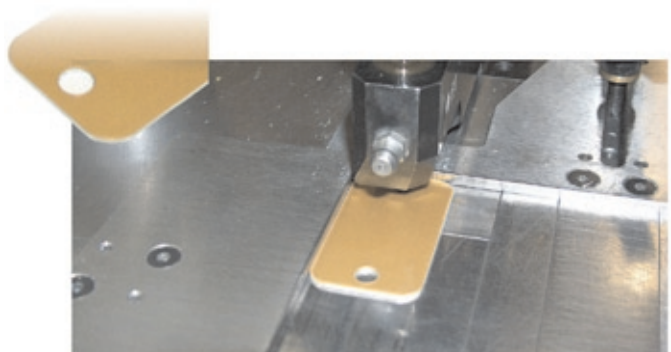
drilled to your specifications

Holes are positioned according to your specifications. When measuring holes, follow the illustrated example below.
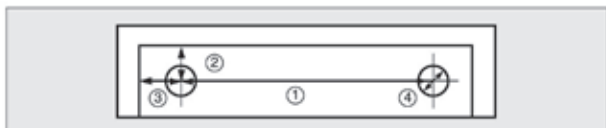
Supply these four measurements:
1. From the centre of one hole to the centre of the other hole.
2. From the centre of the hole to the top edge of the material.
3. From the centre of the hole to the side edge of the material.
4. Diameter of any counter-sunk holes to be drilled (for mounting materials and wall holders with flat head screws.)

Please ask for a quotation.

FABRICATION SERVICES

Adhesive backing

We can apply adhesive backing to badges, nameplates, strips and sheets. Adhesive backing is applied before cutting material.
Please specify interior or exterior use.

Magnetic backing

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

Hot-stamping

To add a coloured logo or inscription on badges, ID plates etc.

Custom solutions

We also deliver cut to size self-adhesive signs in a matrix on a carrier material: • engrave it • take it off • stick it on.
For more information, please contact us.

Ready to engrave badges

Just like our other cut-to-size items, badges are available in most of our engraving materials. Our badges include fasteners.
For additional information, please see page 60 and 61.

Custom colour plastic material

Gravograph provides exclusive colour matching services!
Although we offer the largest selection of engraving materials, we understand our customers' special requirements. Gravograph is able to supply proprietary material based on your specifications: colour, material and thickness.
If a large job calls for a special colour combination, please contact us.

Lead-time

All fabrication orders are custom orders. Many orders are shipped within one business day, however custom orders may require additional time. Fabrication times are only an estimate and may vary according to production load.

GRAVOGRAPH

CUT TO SIZE

Circular and oval blanks are available from our current range of engraving materials. Custom sizes are available on request.

Other sizes on request
65 mm x 42.5 mm
40 mm x 24 mm
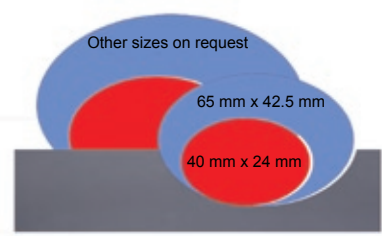
OVAL BLANKS
Custom sizes are available with or without holes.

Other sizes on request
50
45
40
35
30
25
20 mm Ø
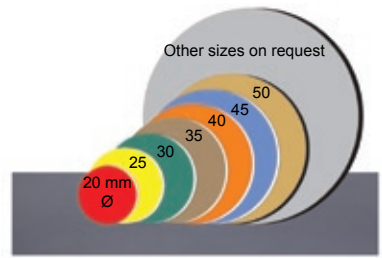
CIRCULAR BLANKS
Diameter 20 - 25 - 30 - 35 - 40 - 45 - 50 mm.
Custom sizes are available with or without holes.

CUTTING
Diam. 10.0 - 11.0 - 15.0 - 15.5 - 22.5 - 23.5 - 24.5 - 30.5 - 31.0 mm
Other diameters on request.

Concave corner cutting
r = 11
For up to 40 mm width
For up to 80 mm width
r = 11

SIGNS WITH CONCAVE CORNERS
Label push-buttons.

With industrial applications come the most diverse needs.
The Gravograph range of materials is the solution, offering both "standard" and "on demand" requests.
Our engraving materials in plastic or aluminium are designed for use in harsh environments.

GRAVOGRAPH

IDENTIFICATION LABELS
FOR ELECTRICAL APPLICATIONS

SAMPLE APPLICATIONS

Switchboard labels

Emergency stop buttons

Electrical panels
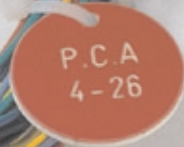
CABLE TAGS
GRAVOPLY 1 and GRAVOPLY 2, size 120 x 20 mm,
0.8 mm thick, with 4 oblong holes 6.5 x 3mm.
Other sizes on request.
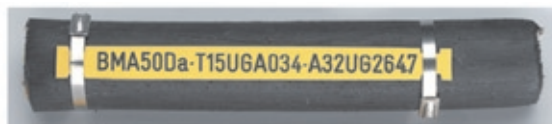
CABLE TAGS
GRAVOPLY 1, size 150 x 11 mm,1.5 mm thick,
with 4 die-cut sides for mounting with hose clamps.
Other sizes on request.
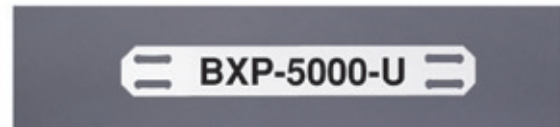
CABLE TAGS
GRAVOPLY 2, size 82 x 12 mm, 0.8 mm thick
with 4 oblong holes 8 x 2 mm.
Other sizes on request.
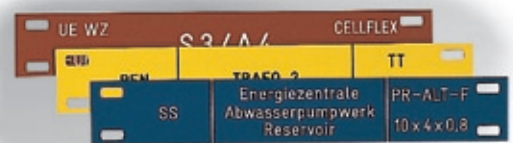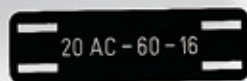
Type 420
20 or 25 mm ø Circular blanks
GRAVOPLY 1 or GRAVOPLY 2
with 3 x 2.5 mm ø holes.

25 mm ø Circular blanks
GRAVOXAL, 1 mm thick
with 3 x 2.5 mm ø holes.

Type 425
60 x 18 mm Rectangular blanks
black polished GRAVOXAL
1.5 mm thick
rounded corners R = 3 mm
with 4 oblong holes 10 x 2.2 mm.

Type 430
120 x 20 mm Rectangular blanks
GRAVOPLY 1 or GRAVOPLY 2,
0.8 mm thick, with 4 oblong holes 6.5 x 3 mm.

Available with 2 pre-engraved lines on request.
Also available in 1.6 mm thick material on request.

Type 440 tags for identifying electrical switches
30 x 40 mm tags
GRAVOPLY 2, 0.8 mm thick.
with a ø 22.5 or 24.5 mm hole off-centre.

Other dimensions, colours or materials on request.

GRAVOGRAPH

METALLEX OR GRAVOPLY 2 INLAID PLATES

Available in 5 styles

INLAID AND ID PLATES are blanks produced by special in-house tools. For higher volume orders, they offer better value than an equivalent cut to size service.

For more information, please contact us.

Our inlaid plates are made of METALLEX or GRAVOPLY 2 0.8 mm with bevelled edges r = 2 mm.

A. size 27 x 8 mm
B. size 27 x 12.5 mm
C. size 27 x 18 mm
D. size 22 x 10 mm
E. size 22 x 22 mm
F. size 27 x 27 mm
G. size 27 x 19 mm

A

B

C, G

D

E
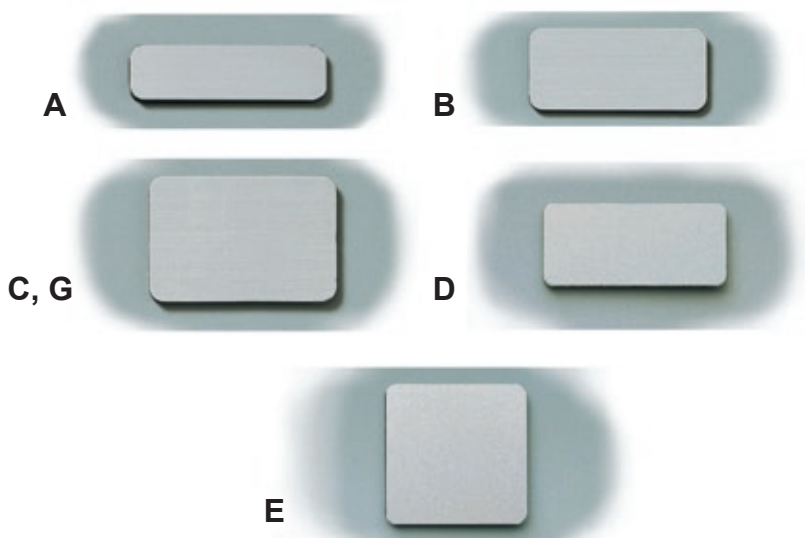
ID PLATES AND LABELS

Available in 6 styles
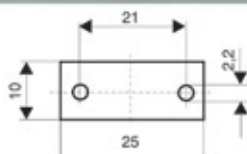
Our ID plates and labels are made of GRAVOPLY 1, GRAVOPLY 2, METALLEX 0.8 mm thick or GRAVOXAL 1.0 mm thick and feature two drilled holes:

1.   Ø 1.5 mm, hole spacing 14 mm
2.   Ø 2.2 mm, hole spacing 21 mm
2a. Ø 2.5 mm, hole spacing 18 mm
3.   Ø 2.2 mm, hole spacing 26 mm
3a. Ø 2.5 mm, hole spacing 25 mm, r = 1.25 mm
4.   Ø 2.5 mm, hole spacing 30 mm

1. size 18 x 9 mm
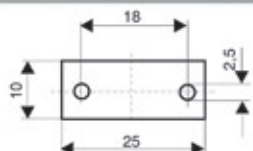
2. size 25 x 10 mm

2a. size 25 x 10 mm
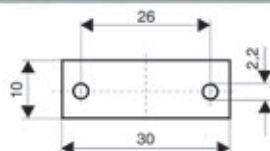
3. size 30 x 10 mm
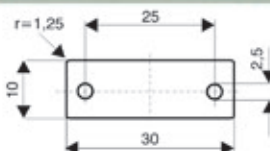
3a. size 30 x 10 mm

4. size 37 x 13 mm

www.gravograph.com

GRAVOGRAPH

GRAVOPLY™ LASER

LASER   ROTARY   INDOOR   SURFACE

NEW

Laser engraving AND cutting!

- **Badges**
- **Interior signage**
- **Identification plates**

- Laser and rotary engravable
- Microthin surface layer for detailed engraving
- A wide range of colours
- Matt, brushed or glossy finish
- Excellent for interior signage
- Laser engraving and cutting

Specifications

Surface	Matt, Brushed, Glossy
Composition	Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■		Exterior
Shear	■	■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant		■	Flexible
Break resistant			UV resistant
		60ºC	Max. temp.

Did you know?

We can mix any cap colour with any core colour.

Bold items are value priced!

	Surface colour	Core colour	2-ply 0.8 mm .030"	2-ply 1.3 mm .050"
●	white	red	**51047**	**51006**
●	white	blue	51057	51011
●	white	black	**51017**	**49971**
●	almond	black	51022	49978
●	yellow	red	51048	51007
●	yellow	blue	51058	51012
●	yellow	black	**51018**	**49973**
●	dark yellow	black	51019	49977
●	orange	white	51035	51005
●	orange	black	51020	51001
●	red	white	**51034**	**49988**
●	red	yellow	51055	51009
●	burgundy	white	51043	49997
●	burgundy	gold	51062	51016
●	apple green	white	51042	49996
●	pine green	white	51039	49995
●	sky blue	white	51037	49990
●	sky blue	black	51021	49979
●	blue	white	**51036**	**49989**
●	blue	yellow	51056	51010
●	air force blue	white	51038	49991
●	air force blue	gold	51061	51015
●	brown	white	51044	49993
●	chocolate brown	white	51045	49994
●	brushed bronze	black	51032	51004
●	brushed aluminium	black	**51025**	**49981**
●	glossy silver	black	**51027**	**49980**
●	brushed silver	blue	51059	51013
●	brushed silver	black	**51026**	**49986**
●	matt aluminium	black	51024	51002
●	new gold	black	51031	49985
●	european gold	black	51030	49982
●	brushed gold	black	**51028**	**49983**
●	glossy gold	black	**51029**	**49984**
●	grey	white	51046	49992
●	grey	black	51023	49974
●	black	white	**51033**	**49987**
●	black	yellow	51049	51008
●	black	gold	51060	51014

GRAVOGRAPH

GRAVOLASE® METALLICS

LASER ROTARY INDOOR SURFACE

- **Badges**
- **Trophy plates**
- **Award plaques**
- **Identification plates**

- Metallic finish
- Laser and rotary engravable
- 0.025 mm (.001") cap layer
  for detailed engraving
- 0.5 mm (.020") thickness
  suitable for bevelling

| | Surface colour | Core colour | 2-ply | |
| | | | 0.5 mm | 1.6 mm |
			.020"	1/16"
●	brushed silver	blue	18968	
●	brushed silver	black	18961	19003
●	glossy silver	burgundy	29549	29559
●	glossy silver	black	29548	29558
○	brushed bronze	white	29545	29555
●	brushed bronze	black	29544	29554
●	copper	black	29546	29556
●	brushed gold	burgundy	18969	
●	brushed gold	forest green	18959	
●	brushed gold	black	18960	19002
●	glossy gold	black	29543	29553

Specifications

Surface	Metallic
Composition	DR Acrylic
Rotary engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Did you know?

We can cut any of our materials into small pieces for you – with or without bevelled edges. Drilled holes are no problem either. Our fabrication department is ready when you are!

Capabilities

Interior	■		Exterior
Shear	■	■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■	■	Flexible
Break resistant	■		UV resistant
		80ºC	Max. temp.

www.gravograph.com

GRAVOGRAPH

CHARIOT
RETOUR
DE

ELECTRICAL PANEL | HIGH VOLTAGE PANEL | DANGER USE LOCKOUT | CABINET 814 | CONTROL PANEL | TERMINAL BLOCK SAB-1
T.C.F.G. SWITCH | 1 2 3 4 TERMINALS | PUMP SWITCH | BILGE PUMP
CABLE TO PENDANT | MAIN POWER SWITCH | CAUTION STATIC SENSITIVE | COOLANT SUPPLY | WORK LIGHT | BOOST PUMP
AUXILIARY POWER | STAND-BY POWER | POWER DOWN BEFORE OPENING | CLOSE DOOR TO OPERATE | LEFT ENGINE | STARBOARD TANK
HYDRAULICS PANEL | PERISCOPE POWER | DANGER HIGH VOLTAGE | DOOR INTERLOCK | STANDBY GENERATORS | STAGE 1 DESTRUCT SW
TRANSFORMER | PROPANE SOLENOID | APERTURE SWITCH | CODE TA35H-2FG COMPLIANT | FOR SERVICE 800-800-0000 | DELTA A SIX ELECTRICAL
SUSPENSION TRIM | L1 COM L2 T1 T2 T3 | RELAY FG45 | MOTHER BOARD | I/O TERMINALS | FIRE EXTINGUISHER
ELECTRICAL CABINET | HVAC ELECTRICS | BRANCH 2 ELECTRICS | MAINS CABINET | CIRCUIT BREAKER PANEL | FUSE PANEL F1 - F8
MOTOR T5 | BILGE FAN | 15 AMPS MAXIMUM | ROBOT ARM CONTROL PANEL | EMERGENCY SHUT-DOWN | PORT ENGINE
DISCHARGE ROD | COMPUTER EQUIPMENT

CABLES

Mr and Mrs ABBOTT
1, Wyndham close
Kingsmead,Northwich
Cheshire CW9 8UL

BOITES CLOCHES. FOND
16650
630X630X80
HAN.C.6

GRAVOPLY™ 1

ROTARY   INDOOR   SURFACE

- **Interior signage**
- **Identification plates**
- **Key tags**

- Satin finish
- Engraving depth 0.3 mm (.012")
- 2-ply or double-sided
- Many colours and thicknesses
- Scratch resistant

Specifications

Surface	Satin
Composition	XT/ABS
Profile engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■			Exterior
Shear	■		■	Saw
Silk screen	■		■	Hot stamp
Scratch resistant	■		■	Flexible
Break resistant	■			UV resistant
			60ºC	Max. temp.

			2-ply			double-sided	
			0.8 mm	1.6 mm	2.4 mm	1.6 mm	3.2 mm
	Surface colour	Core colour	1/32"	1/16"	3/32"	1/16"	1/8"
●	white	magenta		29573			
●	white	red	17279	17385	17484		29699
●	white	burgundy		29576			
●	white	teal		29568			
●	white	green		17313	17466		
●	white	pine green		29561			
●	white	blue	17284	17396	17489		
●	white	brown		29575			
●	white	black	17263	17331	22030	29578	29700
●	new york white	burgundy		29570			
●	new york white	brown		29571			
●	ivory	chocolate brown		17310			
●	almond	burgundy		29562			
●	almond	silver grey		17425			
●	almond	black		32293			
●	yellow	blue		17373			
●	yellow	black	17273	17366	17478	29579	17525
●	pink	white		30384			
●	pink	magenta		29577			
●	red	white	17267	17506	17472	29580	29702
●	red	black		17454			
●	burgundy	white		17463			
●	pine green	white		17410	17495		
●	azure blue	white	17270	17353	17475	29603	29705
●	navy blue	white		29581			29706
●	rust	white		17448			
●	chocolate brown	white		31641			29704
●	silver grey	white		29584			
●	silver grey	burgundy		29587			
●	silver grey	navy blue		29585			
●	silver grey	black	17276	17379	17481		
●	black	white	17250	17319	17467	29604	17521
●	black	red		29601			

GRAVOGRAPH

GRAVOPLY™ 1

ROTARY   INDOOR   SURFACE

- **Interior signage**
- **Identification plates**
- **Key tags**

- Satin finish
- Engraving depth 0.3 mm (.012")
- 2-ply or double-sided
- Many colours and thicknesses
- Scratch resistant

Specifications

Surface	Satin
Composition	XT/ABS
Profile engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■		Exterior
Shear	■	■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■	■	Flexible
Break resistant	■		UV resistant
		60°C	Max. temp.

	Surface colour	Core colour	2-ply			double-sided	
			0.8 mm	1.6 mm	2.4 mm	1.6 mm	3.2 mm
			1/32"	1/16"	3/32"	1/16"	1/8"
●	yellow	white		29564			
●	yellow	magenta		29565			
●	orange	white		17407			
●	orange	black		17404			
●	burnt orange	black	29560	29566			
●	red	yellow		17445			
●	teal	white		29569			
●	apple green	white	17292	17442	17503	29602	
●	green	white		17393			
●	pine green	almond		29574			
●	blue metallic	white		17363			
●	azure blue	yellow		17439			
●	air force blue	white		17428	17500		
●	navy blue	silver grey		29582			
●	cocoa	white		17419			
●	brown	white		17388	17487		29703
●	light grey	black		29583			
●	silver grey	almond		29586			
●	metallic grey	white		17376			
●	black	yellow		17399			
●	black	silver grey		29572			

GRAVOGRAPH

GRAVOPLY™ 1 DESIGN

ROTARY INDOOR SURFACE
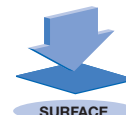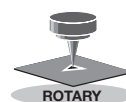
- **Interior signage**
- **Identification plates**
- **Key tags**

- Matt, glare-free finish
- Gravoply™ Translucent is excellent for backlit signs

Gravoply™ Matt Decor

| | Surface colour | Core colour | 2-ply |
			1.6 mm
			1/16"
●	new york white	slate	29614
●	candlewick	slate	29616
●	burgundy	salmon	29615
●	slate	new york white	29617

Specifications

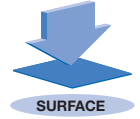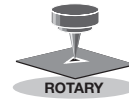| Surface	Matt
Composition	XT/ABS
Profile engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Gravoply™ Translucent
(satin finish)

| | Surface colour | Core colour | 2-ply |
			1.6 mm
			1/16"
●	white	translucent red	29618
●	black	translucent white	17295

Capabilities

Interior	■		Exterior
Shear	■	■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■	■	Flexible
Break resistant	■		UV resistant
		60°C	Max. temp.

GRAVOGRAPH

GRAVOPLY™ 2

LASER   ROTARY   INDOOR   SURFACE

- **Badges**
- **Identification plates**
- **Interior signage**

- Microthin surface layer
- Perfect for small characters and detailed logos
- Low glare, matt finish

Specifications

Surface	Matt
Composition	ABS
Profile engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■			Exterior
Shear	■	■		Saw
Silk screen	■	■		Hot stamp
Scratch resistant	■	■		Flexible
Break resistant	■			UV resistant
		60ºC		Max. temp.

Did you know?

We can custom manufacture your badges so that all you have to do is engrave.
See page 10.
Double-sided available on request in any of the standard colours.

			2-ply			
			0.5 mm	0.8 mm	1.5 mm	2.4 mm
	Surface colour	Core colour	.020"	1/32"	1/16"	3/32"
●	white	red		21857	21928	21989
●	white	burgundy			21874	
●	white	azure blue		21841	21908	21973
●	white	black	53218	21850	21919	21982
●	almond	burgundy			29709	
●	almond	black		21855	21926	
●	yellow	red			21913	
●	yellow	blue		21828	21896	
●	yellow	black		21863	21936	21995
●	dark yellow	black			21925	
●	orange	white			52205	
○	red	white	53219	21851	21921	21983
○	red	yellow			21910	
○	burgundy	white			21932	
○	apple green	white		21838	21905	21970
○	pine green	white		21865	21938	21997
○	pine green	yellow			21916	
○	sky blue	white		21861	21934	21993
●	sky blue	black			21895	
○	blue	white	53220	21852	21923	21984
○	blue	yellow			21911	
○	air force blue	white			21907	
○	brown	white		21858	21930	
○	chocolate brown	white			21876	
○	grey	white		21856	21927	21988
●	grey	black			21915	
○	black	white	53217	21849	21917	21981
○	black	yellow			21866	21940

* Gravoply™ 2 products have a laserable foil cap, but their ABS core does not react well to lasering.
When engraving with a laser, please ensure that you do not engrave deep into the ABS core.

GRAVOGRAPH

GRAVOPLY™ 2

LASER *   ROTARY   INDOOR   SURFACE
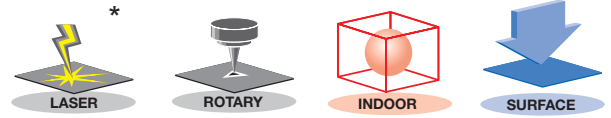
- **Badges**
- **Identification plates**
- **Interior signage**

The ultimate in scratch resistance!

Gravoply™ 2

- Gravoply™ 2 Gloss has an extra durable, scratch resistant, glossy cap
- Microthin surface layer
- Perfect for small characters and detailed logos
- Low glare, matt finish on Tech Patterns

	Surface colour	Core colour	2-ply 1.5 mm 1/16"
●	white	red	23981
●	white	black	23977
●	yellow	black	23982
●	red	white	23978
●	emerald green	white	23983
●	blue	white	23979
●	grey	white	23980
●	black	white	23976

Specifications

Surface	Matt, Glossy
Composition	ABS
Profile engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Gravoply™ 2 wood

	Surface colour	Core colour	2-ply 1.5 mm 1/16"
●	satin light walnut	white	21885

Capabilities

Interior	■		Exterior
Shear	■	■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■	■	Flexible
Break resistant	■		UV resistant
		60ºC	Max. temp.

Gravoply™ 2 Tech Patterns

	Surface colour	Core colour	2-ply 1.5 mm 1/16"
●	black pinstripe	white	22019
●	silver grid	black	22022

* Gravoply™ 2 products have a laserable foil cap, but their ABS core does not react well to lasering. When engraving with a laser, please ensure that you do not engrave deep into the ABS core.

GRAVOGRAPH

GRAVOPLY™ 3C

ROTARY   INDOOR   SURFACE
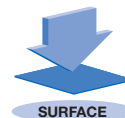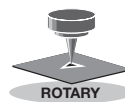
- **Signage**
- **Plates with logos**
- **Badges**

- This unique material offers 3 layers of colour for surface engraving
- The colour revealed varies according to the depth of engraving
- Only one tool required to achieve two different colours
- Ideal for safety signs

| | | Surface colour | Core colour | Core colour | 3-ply |
| | | | | | 1.6 mm |
					1/16"
●	●	white	red	black	23957
○	●	yellow	white	black	23949
●	●	yellow	red	black	23954
○	●	red	white	black	23955
○	●	apple green	white	black	23953
○	●	blue	white	black	23956
●	○	blue	red	white	23952
●	○	brushed aluminium	black	white	23951
●	○	radiant gold	black	white	23950
●	○	black	red	white	23948

Specifications

Surface	Matt
Composition	ABS
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■			Exterior
Shear	■		■	Saw
Silk screen	■		■	Hot stamp
Scratch resistant	■		■	Flexible
Break resistant	■			UV resistant
			60ºC	Max. temp.

Did you know?

Custom colour combinations are available, with minimum quantities as low as 10 full sheets. Please call us for more details.

GRAVOGRAPH

AFFINITI GOLF PARTNERS

0300942
PART NUMBER

LEFT SIDE	70
DESCRIPTION	HERTZ

**3430 HIGHWAY NINE NORTH
ALPHARETTA, GA 30004**

AFFINITI
GOLF PARTNERS

AFFINITI GOLF
PARTNERS
CHAMPIONSHIP

The Executive Offices of AFFINITI GOLF PARTNERS

...ITI GOLF ...TNERS

...day   Friday
5   9–6

www.affinitigolf.com
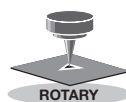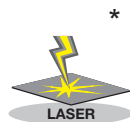
METALLEX®

- • **Badges**
- • **Identification plates**
- • **Plaques**

- 2-ply silver, gold, aluminium, bronze
- Microthin surface layer
- Metallex® is excellent for indoor applications
- Metallex® Gloss has an extra durable, scratch resistant, glossy cap
- Metallex® 2 has a special foil for increased durability

Metallex®

	Surface colour	Core colour	0.5 mm .020"	0.8 mm 1/32"	1.5 mm 1/16"	2.4 mm 3/32"
●	brushed silver	black			21825	21889	21957
●	brushed aluminium	red				21906	21971
●	brushed aluminium	black	53221	21830	21898	21965
●	glossy silver	red			21902	
●	glossy silver	blue			21900	
●	glossy silver	black		21823	21887	21955
●	new gold	black	53222	21846	21914	21978
●	brushed gold	black		21824	21888	21956
●	european gold	black		21836	21903	21969
●	glossy gold	red		21834	21901	21967
●	glossy gold	black	53223	21822	21886	21954
○	brushed bronze	white		21826	21890	21958

(Note: top header row spans 2-ply with 0.5 mm, 0.8 mm, 1.5 mm, 2.4 mm columns)

Specifications

Surface	Glossy, Matt, Brushed
Composition	ABS
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■		Exterior
Shear	■	■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant		■	Flexible
Break resistant	■		UV resistant
		60ºC	Max. temp.

Metallex® Gloss

The ultimate in scratch resistance!

	Surface colour	Core colour	2-ply 1.5 mm 1/16"
●	brushed aluminium	black	23974
●	glossy silver	black	23972
●	brushed gold	black	23973
●	european gold	black	23975
●	glossy gold	black	23971

Did you know?

Metallex® 2 has a protective surface treatment that provides improved surface durability and scratch resistance.

Metallex® 2

NEW

	Surface colour	Core colour	0.5 mm .020"	0.8 mm 1/32"	1.5 mm 1/16"	2.4 mm 3/32"
●	glossy aluminium	black			21871	21945	22002
●	brushed aluminium	black			21869	21943	22000
●	matt aluminium	red			21868	21942	
●	matt aluminium	blue			21873		22004
●	matt aluminium	black	53224	21867	21941	21999

(Note: top header row spans 2-ply with 0.5 mm, 0.8 mm, 1.5 mm, 2.4 mm columns)

NEW

* Metallex® products have a laserable foil cap. The results can vary according to the colours.

GRAVOGRAPH

STICKALASE®
ADHESIVE MATERIAL FOR LABELS

- **Labels**
- **Bar codes**
- **Trophy plates**

Available in black/white or silver/black, a 0.09 mm (.004") thick, adhesive backed, laserable plastic that is perfect for barcodes, cylindrical labelling, ID plates or trophy plates. Use your CO_2 laser machine to engrave and/or vector cut custom shapes from this flexible and durable material.

Specifications

Surface	Matt
Profile engraving depth	0.025 mm (.001")
Thickness	0.09 mm (.004")
Standard size (roll)	120 mm x 10 m (4.75" x 32')

Capabilities

Interior	■		Exterior
Shear	■		Saw
Silk screen	■		Hot stamp
Scratch resistant	■	■	Flexible
Break resistant	■		UV resistant
Min. temp.	0ºC	60ºC	Max. temp.

			0.09 mm
	Surface colour	Core colour	.004"
●	silver	black	19872
●	black	white	19871

RUBBALASE

- **Rubber stamps**

Natural rubber sold in sheets, exclusively for lasering with CO_2 laser engraving machines to create inking stamps. Grey in colour, 2.2 mm (.087") in thickness.

Natural Rubbalase Sheet	19897
Odourless Rubbalase Sheet	48542

Specifications

Colour	Grey
Thickness	2.2 mm (.087")
Standard size	A4

GRAVOGRAPH
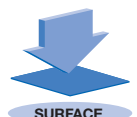
GRAVOSTRAT®
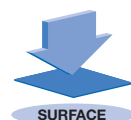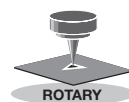
• Industrial identification

- Phenolic material
- Glossy finish
  (matt finish for photoluminescent)
- Double-sided
- Resistant to chemicals and solvents
- Non-flammable
- Conforms to military specifications
  ASTM D 709 ES-1, ES-2, ES-3
- Electrically non-conductive
- Scratch resistant
- Saw cut
- Indoor use

			double-sided		
			1.0 mm*	1.5 mm*	2.4 mm**
	Surface colour	Core colour	.040"	1/16"	3/32"
●	white	red		22045	22052
●	white	blue		18496	18516
●	white	black	30385	22042	22049
●	ivory	black		18500	18520
●	yellow	black	30389	22044	22051
●	orange	white		18492	18512
●	red	white	30390	22043	22050
●	green	white	30392	22046	22053
●	blue	white	30393	18489	18509
●	grey	black		22047	22054
●	black	yellow		18498	18518
●	black	white	30395	22041	22048

** Gravostrat may be subject to slight variations in thickness

			1.2 mm
	Surface colour	Core colour	.050"
●	photoluminescent	brown	18525

Size: 605 x 605 mm

Specifications

Surface	Glossy, matt for photoluminescent
Composition	Rigid thermoset material
Profile engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 605 mm (24" x 48")
Half sheet	610 mm x 605 mm (24" x 24")
Quarter sheet	605 mm x 305 mm (12" x 24")

* Gravostrat® can be laser engraved but not laser cut.

Capabilities

Interior	■		Exterior
Shear		■	Saw
Silk screen	■		Hot stamp
Scratch resistant	■		Flexible
Break resistant			UV resistant
		60ºC	Max. temp.

GRAVOGRAPH

GRAVOMETALL
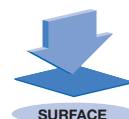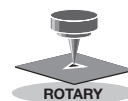
- **Professional plaques**
- **Interior signage**
- **Award plates**

- Glossy or satin finish
- Diamond, rotary, burnish and laser engraving
- Use Gravoxide or paint fill (see page 65) for contrasting letter colour
- Pre-polished and lacquered
- Tip: apply clear lacquer after engraving to avoid tarnishing

			Glossy			Satin			
			0.5 mm	0.6 mm	1.2 mm	0.5 mm	0.6 mm	1.2 mm	1.6 mm
	Surface colour	Core colour	.020"	.025"	.050"	.020"	.025"	.050"	1/16"
○	gold	gold	18407		18435		18423	18438	18441
●	bronze	gold				18411			
●	silver	gold		18420			18429		
●	black	gold	18402						

Gold, bronze and silver return black letters with the use of Gravoxide. Black returns gold letters.
* Black is laser engravable.

Specifications

Surface	Glossy or Satin
Composition	Brass
Engraving depth for Gravoxide	0.1 mm (.004")
Engraving depth for paint fill	0.3 mm (.012")
Full sheet	1220 mm x 305 mm (12" x 48")
Half sheet	610 mm x 305 mm (12" x 24")
Quarter sheet	305 mm x 305 mm (12" x 12")

Capabilities

Interior	■		Exterior
Shear	■	■	Saw
Silk screen	■		Hot stamp
Scratch resistant			Flexible
Break resistant	■		UV resistant
Min. temp.	-40°C	100°C	Max. temp.

GRAVOGRAPH

GRAVOBRASS EXTERIOR

ROTARY   INDOOR   OUTDOOR   SURFACE
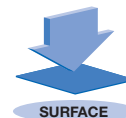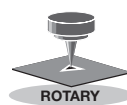
- **High quality signage**
- **Ornamental plates**
- **Company name plates**

	Surface colour	Core colour	1.0 mm .040"	1.5 mm 1/16"	2.0 mm 1/12"	3.0 mm 1/8"	4.0 mm 1/6"
○	shiny polished brass	brass	22032	22034	22036	22038	22040
○	solid brass	brass	22031	22033	22035	22037	22039

- Shiny polished or solid finish
- High quality engraver's brass
- Solid brass is unpolished and may feature surface defects
- Paint fill with Gravolaque (see page 65)
- Use of chemicals on this material is not recommended

Specifications

Surface	Solid or polished
Composition	Brass
Engraving depth	0.3 mm (.012") for paint fill
Colouring	Engravers Enamel (see page 69)
Full sheet	1340 mm x 670 mm (26" x 52")
Half sheet	670 mm x 670 mm (26" x 26")
Quarter sheet	670 mm x 335 mm (13" x 26")

Capabilities

Interior	■		Exterior
Shear	■*	■	Saw
Silk screen	■		Hot stamp
Scratch resistant			Flexible
Break resistant	■		UV resistant
Min. temp.	- 40°C	100°C	Max. temp.

* For 1.0 mm (.040") thickness

This brass product will oxidize with age in an outdoor environment. To avoid this, apply a protective layer of clear lacquer after engraving.

GRAVOGRAPH
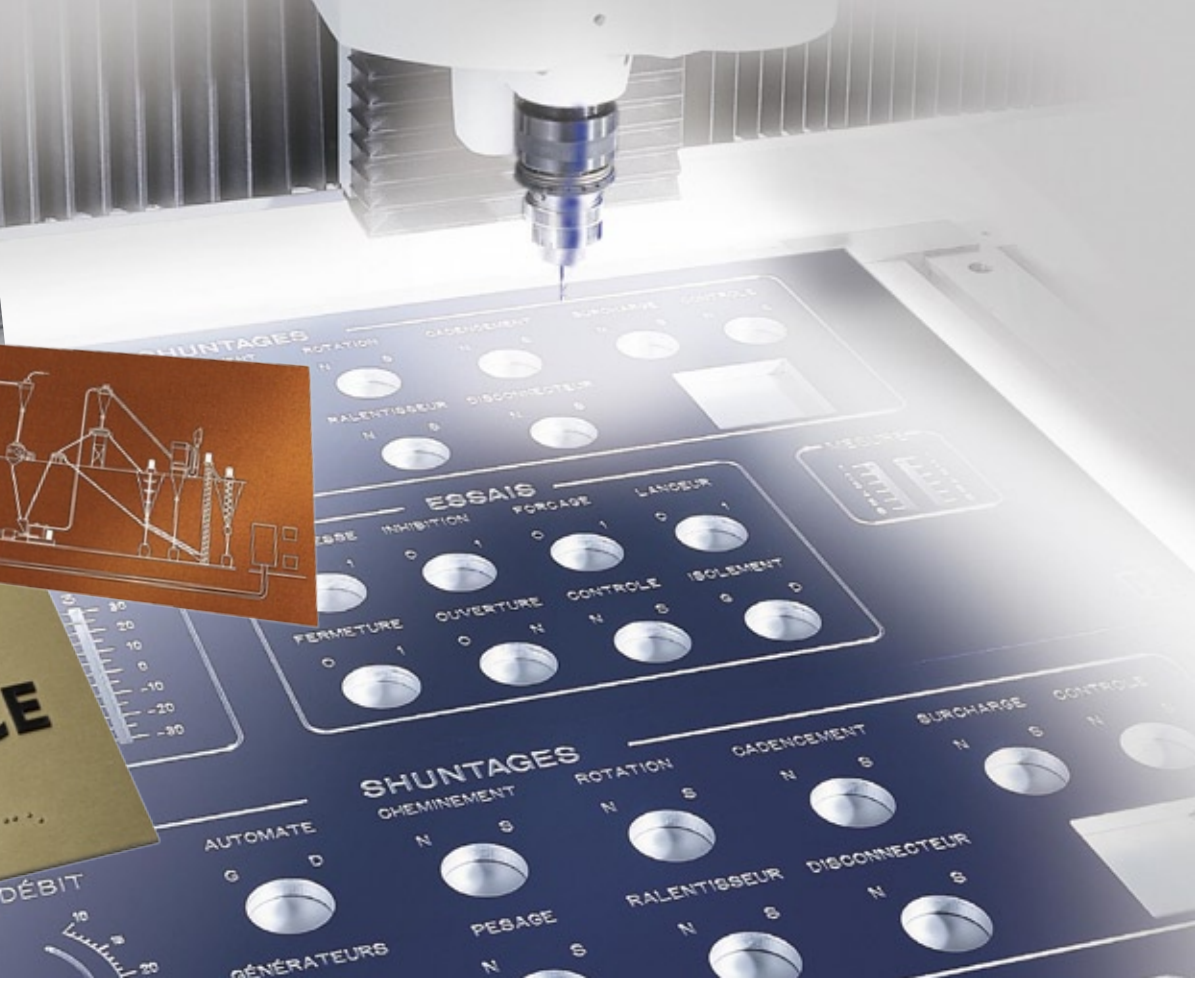
GRAVOXAL

- **Control panels**
- **Legend plates**
- **Award plaques**
- **Signage**

- Anodised aluminium
- For rotary or laser engraving

LASER *

ROTARY

INDOOR

OUTDOOR

SURFACE

Specifications

Surface	Matt or Glossy
Composition	Aluminium
Profile engraving depth	0.1 mm (.004")
Full sheet	1000 mm x 500 mm (39" x 19")
Other size	2000 mm x 1000 mm (78" x 39")

Capabilities

Interior	■	■	Exterior
Shear	■	■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■		Flexible
Break resistant	■	■	UV resistant
Min. temp.	- 40°C	100°C	Max. temp.

Matt

	Surface colour	0.5 mm .02"	1.0 mm .04"	1.5 mm 1/16"	2.0 mm 1/12"	2.5 mm 3/32"	3.0 mm 1/8"	4.0 mm 1/6"
○	champagne		18581	18595	18608			
●	red		18577	18591	18605			
●	green		18583	18597	18610			
●	blue		18579	18593	22058			
●	silver	18385	22055	18386	22057	18387	22059	18388
●	gold	18571	18575	18589	18603		18616	
●	bronze		18585	18599	18612			
●	black	18569	18573	18587	18601		18614	

Glossy

	Surface colour	1.0 mm .40"	1.5 mm 1/16"	2.0 mm 1/12"
○	champagne	18640	18662	18681
●	red	18636	18658	18677
●	green	18642	18664	18683
●	blue	18638	18660	18679
●	silver	18618	18646	18668
●	steel-look	30381	30382	30383
●	gold	18630	18654	18674
●	bronze	18644	18666	18685
●	black	18624	18650	18671

Silver colours are anodised on both sides during the continuous anodisation process. Protective film on one surface.* Laser engraving on coloured material.
Quality of engraving may vary according to the colour. Use Gravolaque to colour any Gravoxal engraving. Aloxide may be used to colour Glossy finish. See p.65.

GRAVOGRAPH

GRAVOXAL® PREMIUM

NEW

LASER* | ROTARY | INDOOR | OUTDOOR | SURFACE
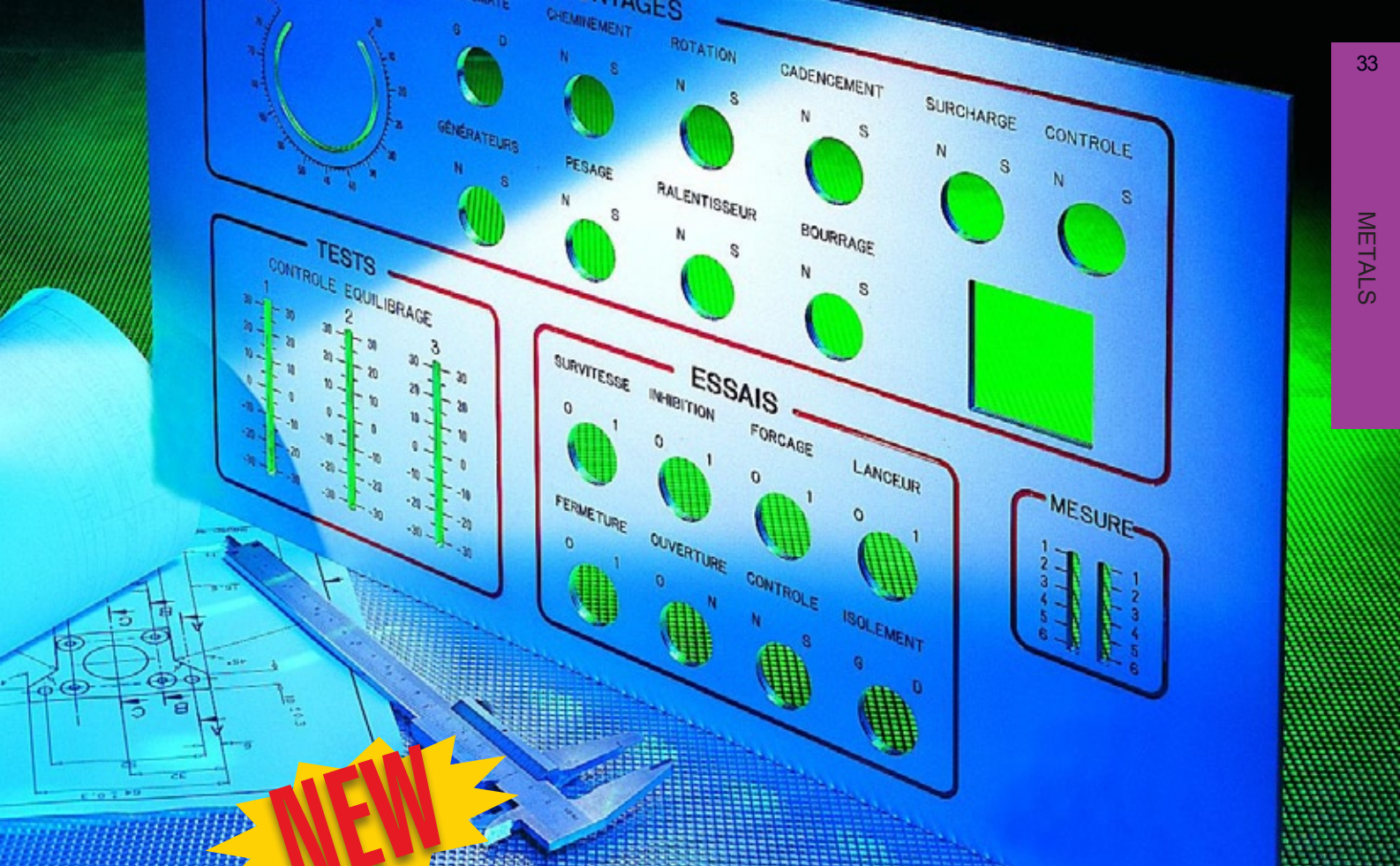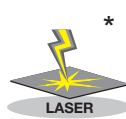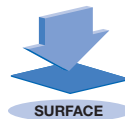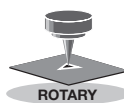
- **Control panels**
- **Legend plates**
- **Award plaques**
- **Signage**

- Double sided anodised aluminium
- Rotary or laser engraving

Specifications

Surface	Matt or Glossy
Composition	Aluminium
Profile engraving depth	0.1 mm (.004")
Full sheet	1000 mm x 500 mm (39" x 19")
Other size	2000 mm x 1000 mm (78" x 39")

Capabilities

Interior	■	■	Exterior
Shear	■	■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■		Flexible
Break resistant	■	■	UV resistant
Min. temp.	- 40°C	100°C	Max. temp.

Matt

	Surface colour	1.0 mm / .04"	1.5 mm / 1/16"	2.0 mm / 1/12"
○	champagne	18360	18372	18383
●	red	18354	18366	18377
●	green	30538	30540	30542
●	blue	18356	18368	18379
●	silver	18350	18362	18374
●	gold	18358	18370	18381
●	bronze	30532	30534	30536
●	black	18352	18364	22056

Glossy

	Surface colour	1.0 mm / .04"	1.5 mm / 1/16"	2.0 mm / 1/12"
○	champagne	18555	18561	18567
●	red	18552	18558	18564
●	green	30521	30522	30523
●	blue	18553	18559	18565
●	silver	18550	18556	18562
●	gold	18554	18560	18566
●	bronze	30524	30526	30530
●	black	18551	18557	18563

All colours are anodised on both sides during the continuous anodisation process. Protective film on both surfaces.* Laser engraving on coloured material.
Quality of engraving may vary depending on the colour. Use Gravolaque to colour any Gravoxal engraving. Aloxide may be used to colour Glossy finish. See p.65.

GRAVOGRAPH

AMERICAN DENTAL ASSOCIATION

AMY NOBLE

D.D.S.
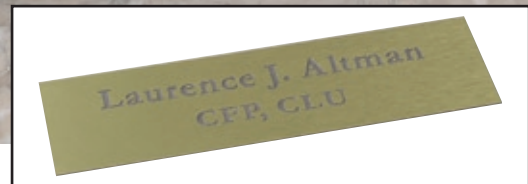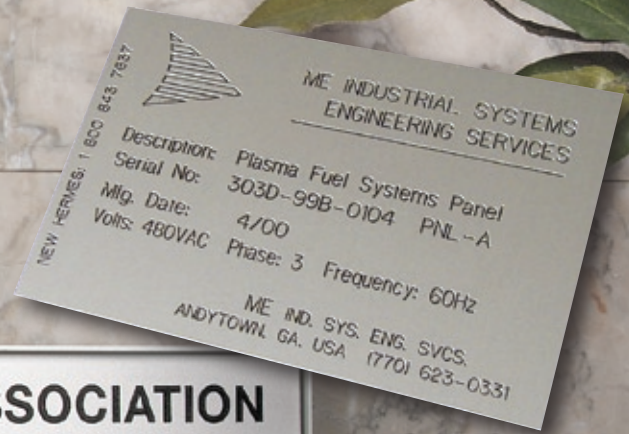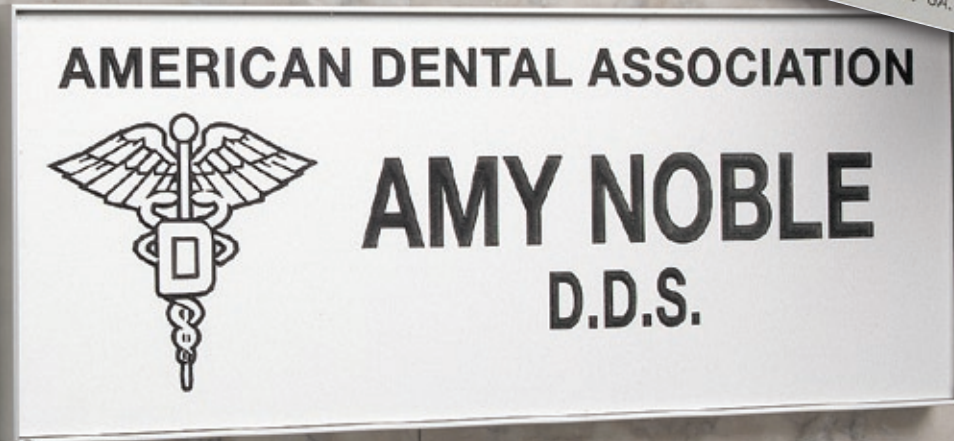
GRAVOSTRAL®
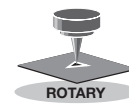
ROTARY   INDOOR   SURFACE

- **Professional interior signage**
- **Award plaques**
- **Identification plates**
- **Signage**

- One product with two finishes
- One side is matt silver and the other is brushed gold
- Aluminium caps with a black phenolic core
- No paint filling required
- Use of chemicals on this material is not recommended

				1.5 mm	3.0 mm
	Surface colour	Core colour		.40"	1/16"
●	gold / silver	black		18472	18482
●	silver / silver	black		18471	

NEW

Specifications

Surface	Satin or Matt
Composition	Aluminium / Phenolic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 605 mm (48" x 23")
Half sheet	610 mm x 605 mm (24" x 23")
Quarter sheet	605 mm x 305mm (23" x 12")

Capabilities

Interior	■		Exterior
Shear		■	Saw
Silk screen	■		Hot stamp
Scratch resistant	■		Flexible
Break resistant	■		UV resistant
Min. temp.	0°C	60°C	Max. temp.

GRAVOGRAPH

ALUMAMARK

LASER INDOOR SURFACE

- **ID plates**
- **Bar codes**
- **Labels**
- **Control panels**

- This special line of gold and silver anodised aluminium returns black characters when lasered with any standard CO_2 laser engraver.
  No oxidation or paint fill needed. Only 6-10 Watts of power required.
- Satin finish
- For outdoor use, add a coat of lacquer after engraving.

	Surface colour	Core colour	0.127 mm .005"	0.5 mm .020"
●	satin silver	black		27417
●	satin silver with adhesive	black	27414	27419
●	satin gold	black		27415
●	satin gold with adhesive	black		27416

Specifications

Surface		Satin
Composition		Aluminium
Engraving depth		0.025mm (.001")
Laser power		6-10 Watts
Full sheet	0.127 mm	305 mm x 254 mm (10" x 12")
	0.5 mm	610 mm x 508 mm (20" x 24")

Capabilities

Interior	■		Exterior
Shear	■		Saw
Silk screen	■		Hot stamp
Scratch resistant		■	Flexible
Break resistant	■		UV resistant
Min. temp.	0ºC	100ºC	Max. temp.

GRAVOGRAPH

COLORED ALUMINUM & TROPHY BRASS

LASER   ROTARY   INDOOR   SURFACE
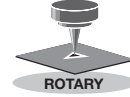
NEW

- **Trophies**
- **Award plaques**
- **Name plates**

- Satin, glossy or matt finish
- Lightweight
- Easy to shear

Specifications - Colored aluminum

Surface	Satin or glossy
Composition	Aluminium
Thickness	0.6 mm (.025")
Rotary engraving depth	0.2 mm(.008")
Burnishing depth	0.1 mm (.002")
Full sheet	1220 mm x 305 mm (12" x 48")
Half sheet	610 mm x 305 mm (12" x 24")
Quarter sheet	305 mm x 305 mm (12" x 12")

Specifications - Trophy Brass

Surface	Satin, glossy or matt
Composition	Brass
Thickness	0.5 mm (.025")
Rotary engraving depth	0.2 mm (.008")
Burnishing depth	0.1 mm (.002")
Full sheet	610 mm x 305 mm (12" x 24")
Half sheet	305 mm x 305 mm (12" x 12")
Quarter sheet	305 mm x 152 mm (6" x 12")

Capabilities

Interior	■		Exterior
Shear	■	■	Saw
Silk screen	■		Hot stamp
Scratch resistant	■		Flexible
Break resistant	■		UV resistant
Min. temp.	0°C	100°C	Max. temp.

Colored Aluminum (Sublimatable)* produces silver lettering

	Surface colour	Core colour	0.6 mm .025"
●	glossy white	silver	34426
●	glossy red	silver	34528
●	glossy blue	silver	34497
●	satin gold	silver	34595
●	glossy gold	silver	34596
●	satin silver	silver	34625
●	glossy silver	silver	34626
●	glossy black	silver	34455

* Our sublimatable metals feature clear protective masking.

Trophy Brass produces gold lettering

	Surface colour	Core colour	0.5 mm .025"
●	glossy white	gold	34645
●	glossy red	gold	34692
●	glossy burgundy	gold	34685
●	glossy green	gold	34710
●	glossy blue	gold	34679
●	glossy royal blue	gold	34694
●	satin gold	gold	34714
○	glossy gold	gold	34715
●	glossy brown	gold	34682
●	glossy black	gold	34677
●	matt black	gold	61083

Best results with diamond and laser engraving.

GRAVOGRAPH

GRAVOTAC™

ROTARY   INDOOR
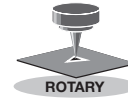
• DDA & ADA compliant tactile signage

- 1 mm (1/32") single-ply profile material
- Available with or without adhesive backing
- 1.6 mm (1/16") single-ply substrates for backplate material

Specifications

Surface	Matt
Composition	ABS
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■			Exterior
Shear	■	■		Saw
Silk screen	■	■		Hot stamp
Scratch resistant	■	■		Flexible
Break resistant	■			UV resistant
		60ºC		Max. temp.

	1-ply	
	1.0 mm	1.6 mm
Surface colour	1/32" profile	1/16" backplate
bright white	28372	29879
almond	28370	29882
yellow	28368	29883
red	28361	29885
burgundy	28373	29888
pine green	28366	29895
metallic blue	28360	29896
azure blue	28369	29897
navy blue	28363	29898
taupe	28362	29890
candlewick	28374	29899
silver grey	28364	29900
slate	28367	29901
chocolate brown	28375	29892
black	28371	29902

GRAVOTAC™ EXTERIOR NEW

LASER   ROTARY   INDOOR   OUTDOOR

- Indoor and outdoor use
- Cut with laser or C.N.C. machines

Specifications

Surface	Matt
Composition	Impact modified acrylic
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■	■		Exterior
Shear		■		Saw
Silk screen	■	■		Hot stamp
Scratch resistant	■	■		Flexible
Break resistant	■	■		UV resistant
		90ºC		Max. temp.

	1-ply	
	0.8 mm	1.6 mm
Surface colour	1/32" profile	1/16"
clear	29918	
exterior white	29919	29936
teal		29903
maui blue		45961
azure blue		29945
silver	29931	
gold	29932	
black	29920	29937

GRAVOGRAPH

SPEED LIMIT 5

SPEED LIMIT 10

SPEED LIMIT 15

SPEED LIMIT 20

SPEED LIMIT 25

SPEED LIMIT 40

40 30 20 10 0 10 20 30 40

GRAVOGRAPH

ENGRAVER'S
ACADEMY

Award
of
Excellence

presented to

Adam Schaffer

September 2008

SHANGRI-LA HOTEL

ROOM 27

SPEED LIMIT 70

SPEED LIMIT 75

SPEED LIMIT 80
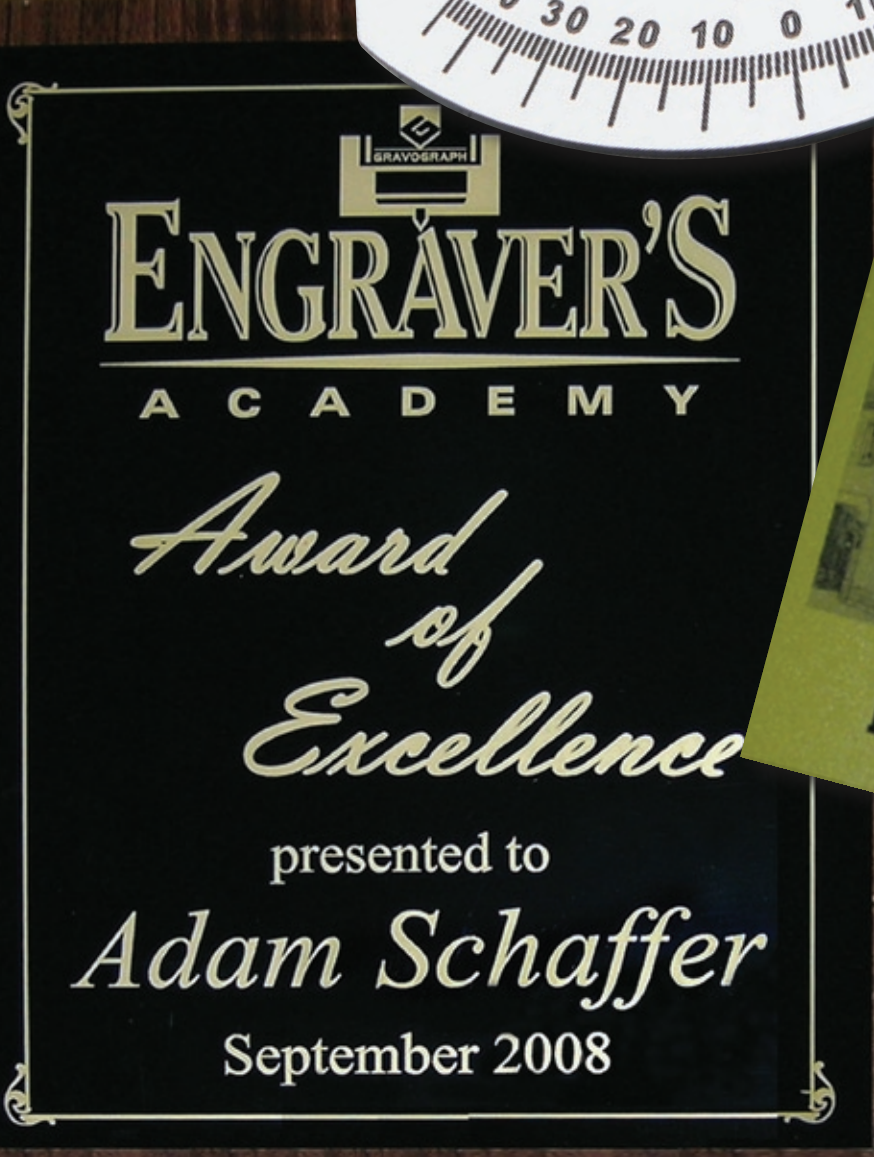
GRAVOPLY™ ULTRA

- **Badges**
- **Awards plaques**
- **Indoor and outdoor signage**

LASER · ROTARY · INDOOR · OUTDOOR · SURFACE · SUBSURFACE *
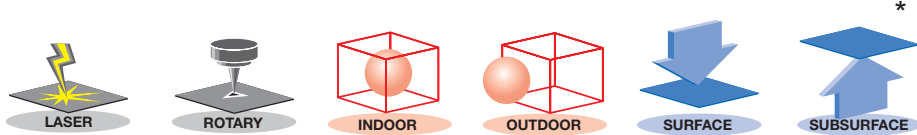
- Satin or matt finish
- Unique 0.5 mm (.002") cap layer for detailed engraving
- UV stable
- Excellent for photo lasering
- Reduce inventory with one material for rotary, laser, indoor and outdoor needs

Specifications

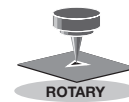| Surface	Satin or Matt
Composition	DR Acrylic
Rotary engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■	■	Exterior
Shear	■	■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■	■	Flexible
Break resistant		■	UV resistant
		80ºC	Max. temp.

	Surface colour	Core colour	Matt 2-ply 0.5 mm .020"	Matt 2-ply 1.6 mm 1/16"	Satin 2-ply 1.6 mm 1/16"	Satin 2-ply 2.4 mm 3/32"
○	clear*	white	18965	19009		
●	clear*	black	18962	19006		
●	white	red		18997		
●	white	blue		18996		
●	white	black	18946	18984	29507	
●	yellow	black	18955	18993	29511	
○	orange	white		19000		
●	orange	black		29499		
●	red	white	18949	18987	29512	
●	red	black		29498		
●	red	gold		29503		
○	burgundy	white		18980		
●	burgundy	gold	18958	18999		
○	green apple	white	18970	19012	29513	
○	forest green	white		19001		
●	forest green	gold		18998		
○	pine green	white		29491		
●	blue	white	18952	18990	29510	
○	navy blue	white		29494		
○	royal blue	white		19015		
●	royal blue	gold	18942	18979		
○	brown	white		29495		
●	black	white	18943	18981	29508	29687
●	black	silver grey		19005		
●	glossy black	gold	18973			
●	matt black	gold	18976	19004		

* Suitable for subsurface engraving.

Gravoply™ Ultraglow

LASER · ROTARY · INDOOR · OUTDOOR

NEW

Photoluminescent

	Surface colour	Core colour	Matt 2-ply 0.8 mm (1/32")
○	glow	white	49884

Please note:
This product allows for white engraving on the photoluminescent surface. 0.8 mm (1/32") thickness may be used to cut profile letters for DDA tactile signage applications.
The glow times for this product meet the following norms: ISO:10012-1 & MIL-STD-45662A

GRAVOGRAPH

Docteur Jean-Pierre SEMA
Diplômé de la faculté de médecine de

MEDECINE GENERA

Consultations sans rendez-vous
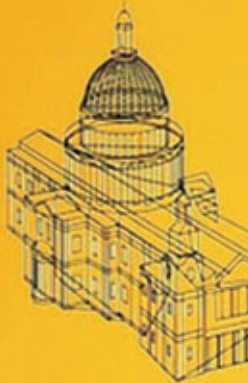
john kennedy u

ground

research department
laboratories 1-2-3-4
conference room

first floor

administration
secretary
library

DANGER

TANK :	2
PRODUCT :	Chloracetic Acid
CAPACITY :	5 litres

AQUARIUM

GRAVOGLAS® 1

LASER	ROTARY	INDOOR	OUTDOOR	SUBSURFACE
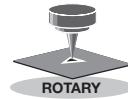
- **Indoor and outdoor signage**
- **Professional name plates**

- Glossy finish
- Excellent UV resistance
- A fine silk-screened layer
- Subsurface engraving
- Resistant to chemical agents
- Subsurface engraving: produce multi-colour signage with paint fill (see Gravolaque page 65)
- Easy to keep surface clean

Subsurface engraving

Glossy

	Surface colour	Core colour	2-ply		
			1.5 mm	3.0 mm	5.0 mm
			1/16"	1/8"	.20"
○	white	clear	18141*	18193	18264
○	light grey	clear	18177*		
○	golden yellow	clear	18130*		
○	yellow	clear		18217	18276
●	red	clear		18201	18267
●	burgundy	clear		18232	18287
●	purple	clear	18132*		
●	moss green	clear	18136*		
●	garden green	clear		18229	18285
●	green	clear		18223	18282
○	light blue	clear	18179*		
●	sky blue	clear		18214	18273
●	blue	clear		18207	18270
●	slate	clear	18171	18244	18293
●	gold	clear	18168	18235	18290
●	old gold	clear	18174	18252	18296
●	brown	clear	18134*		
●	black	clear	18138*	18183	18261

* Conventional colours for the identification of pipes in the industrial sector (AFNOR NF X. 08-002 and INRS ED 88 norms).

Specifications

Surface	Glossy
Composition	Acrylic
Rotary engraving depth	0.2 mm (.008")
Colouration	Gravolaque
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■	■	Exterior
Shear		■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■		Flexible
Break resistant		■	UV resistant
Min. temp.	- 40℃	80℃	Max. temp.

GRAVOGRAPH

GRAVOGLAS® 2
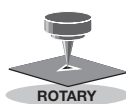
- **Indoor and outdoor signage**
- **Professional plates**
- **Directories**

- Surface engraving
- 3 choices of surface: matt, glossy or textured
- For indoor and outdoor use
- UV stable
- Adhesive backing available

Surface engraving

Matt

| | Surface colour | Core colour | 2-ply | |
| | | | 1.6 mm | 3.2 mm |
			1/16"	1/8"
●	white	red	29627	
●	white	azure blue	29628	
●	white	black	17875	29904
●	eggshell	green	29630	
●	cream	green	29632	
●	yellow	black	17881	
●	orange	black	29633	
○	red	white	17877	29905
●	bordeaux	cream	29634	
○	taupe	eggshell	29635	
○	chocolate brown	white	29636	
○	teal	white	29637	
○	apple green	white	17885	29906
○	green	eggshell	29639	
○	green	cream	29640	
○	metallic blue	white	29641	
○	azure blue	white	17879	29907
●	silver grey	black	17887	29908
●	gold	black	29642	29910
○	black	white	17873	29911
●	black	gold	29643	

Specifications

Surface	Matt, Glossy, Textured
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■	■	Exterior
Shear		■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■		Flexible
Break resistant		■	UV resistant
Min. temp.	- 40°C	80°C	Max. temp.

GRAVOGRAPH

GRAVOGLAS® 2

ROTARY   INDOOR   OUTDOOR   SURFACE

- **Interior and exterior signage**
- **Professional plates**
- **Directories**

- Surface engraving
- 3 choices of surface:
  matt, glossy or textured
- For indoor and outdoor use
- UV stable

Specifications

Surface	Matt, Glossy, Textured
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■	■	Exterior
Shear		■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■		Flexible
Break resistant		■	UV resistant
Min. temp.	- 40°C	80°C	Max. temp.

Surface engraving

Glossy

	Surface colour	Core colour	2-ply 1.6 mm 1/16"	2-ply 3.2 mm 1/8"
●	white	red	17907	18063
●	white	azure blue	17904	
●	white	black	17892	18051
●	red	white	17895	18054
●	burgundy	white	17913	18069
●	brown	white	29644	
●	chocolate brown	white	29645	29650
●	yellow	black	17901	18060
●	apple green	white	17910	18066
●	pine green	white	17918	18072
●	metallic blue	white	29646	
●	azure blue	white	17898	18057
●	royal blue	white	29647	
●	gold	black	17927	18075
●	silver	black	17930	18078
●	copper	black	17924	
●	black	white	17889	18048
●	black	gold	17933	18080

Textured

	Surface colour	Core colour	2-ply 1.6 mm 1/16"
●	white	black	18304
●	white	red	18325
●	white	pine green	18337
●	almond	black	34404
●	ivory	chocolate brown	18346
●	yellow	black	18334
●	red	white	18307
●	pine green	white	18343
●	blue	white	18310
●	american blue	white	18313
●	silver grey	black	18322
●	grey	white	18319
●	black	white	18301

GRAVOGRAPH

GRAVOGLAS® 2

ROTARY INDOOR OUTDOOR SUBSURFACE

- **Indoor and outdoor signage**
- **Professional plates**
- **Directories**

- For indoor and outdoor use
- UV stable
- Subsurface engraving: produce multi-colour signage with paint fill (see Gravolaque page 65)
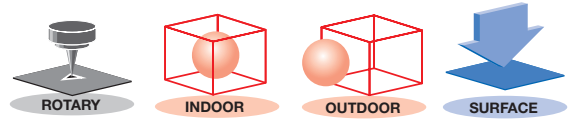
Subsurface engraving

Glossy

	Surface colour	Core colour	2-ply 1.6 mm 1/16"	3.2 mm 1/8"	4.8 mm .20"
○	clear	clear	29655	29657	
○	white	clear	17988	18021	18101
○	almond	clear	17935	18015	
○	yellow	clear	18003	18036	18116
●	red	clear	17997	18030	18110
●	burgundy	clear		18039	
●	air force blue	clear	17938	18018	18098
●	azure blue	clear		18033	
●	garden green	clear		18045	
●	silver grey	clear	29656		
●	silver	clear	17985	18093	
●	gold	clear	17982	18091	
●	brown	clear	17994		
●	black	clear	17991	18024	18104

Matt

	Surface colour	Core colour	2-ply 1.6 mm 1/16"	3.2 mm 1/8"
○	clear	clear	17941	18082
○	white	clear	17947	18086
○	almond	clear	17958	
○	cream	clear	29658	
●	yellow	clear	17956	
●	red	clear	17950	18088
●	bordeaux	clear	29659	
●	burgundy	clear	17976	
●	cocoa	clear	29660	
●	taupe	clear	29661	
●	chocolate brown	clear	17970	
●	apple green	clear	17973	
●	green	clear	29662	
●	azure blue	clear	17953	
●	american blue	clear	29663	
●	sky blue	clear	29664	
●	royal blue	clear	29665	
●	metallic blue	clear	29666	
●	silver grey	clear	17961	
●	slate	clear	29667	
●	silver	clear	29669	
●	gold	clear	29670	
●	black	clear	17944	18084

Specifications

Surface	Matt, Glossy, Textured
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (24" x 48")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (12" x 24")

Capabilities

Interior	■	■	Exterior
Shear		■	Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■		Flexible
Break resistant		■	UV resistant
Min. temp.	- 40°C	80°C	Max. temp.

GRAVOGRAPH

ACRYLIC

LASER ROTARY INDOOR OUTDOOR SURFACE SUBSURFACE

NEW

- **Indoor and outdoor signage applications**

- Glossy finish
- Excellent for clear signage
- Laser and rotary engravable
- For indoor and outdoor use

Specifications

Surface	Glossy
Composition	Acrylic
Full sheet	600 mm x 600 mm (23" x 23")
Half sheet	600 mm x 300 mm (23" x 11.5")
Quarter sheet	300 mm x 300 mm (11.5" x 11.5")

Capabilities

Interior	■	■	Exterior
Shear			Saw
Silk screen	■	■	Hot stamp
Scratch resistant	■		Flexible
Break resistant	■		UV resistant
Min. temp.	- 40ºC	80ºC	Max. temp.
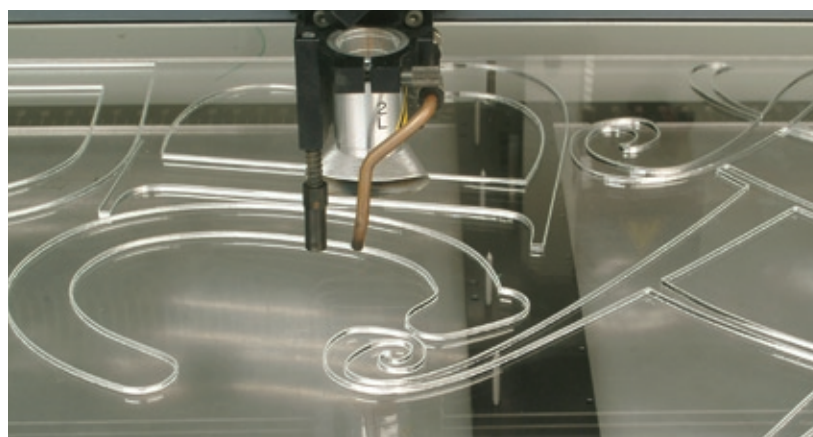
Range of cast acrylics.
Suitable for rotary engraving and colouring techniques.

Clear acrylic

Thickness	Part number
3 mm (1/8")	48300
5 mm (.20")	48301
10 mm (.40")	48302

GRAVOGRAPH

GRAVOFOIL
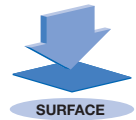
ROTARY   **INDOOR**   **OUTDOOR**   **SURFACE**

- **Industrial signage**
- **Permanent labels**

- Matt finish
- Very flexible
- Interior and exterior
- Excellent resistance to acids and solvents
- An assortment of 13 colours
- Comes with adhesive backing
- Colours for the identification of pipes in the industrial sector

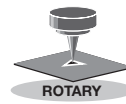|			0.2 mm
	Surface colour	Core colour	.008"
●	white	black	18448
○	black	white	18446
○	blue	white	18452
○	purple	white	18469
●	yellow	black	18456
○	brown	white	18458
○	red	white	18450
○	green	white	18460
○	grey	white	18454
●	orange	black	18462
●	gold	black	18464
●	silver	black	21811
●	copper	black	18467

Specifications

Surface	Matt
Composition	PVC
Engraving depth	0.02 mm (.001")
Full sheet	660 mm x 480 mm (25″ x 18″)
Half sheet	480 mm x 330 mm (25″ x 12.5″)

Capabilities

Interior	■	■	Exterior
Shear	■		Saw
Silk screen	■	■	Hot stamp
Scratch resistant		■	Flexible
Break resistant	■	■	UV resistant
Min. temp.	- 40ºC	70ºC	Max. temp.

Warning:
For laser engraving, use Stickalase. See p.28.

GRAVOGRAPH

GRAVOGRAPH

SIGN
ACCESSIBILITY
& SIGNAGE

innovative
solutions
for

engraving
& marking

BRAILLE SOLUTION

| Part number	Description
49959	Gravograph Braille Kit (compatible with IS400, IS900, IS6000, 7000 and 8000 machines) including: - An automatic bead dispenser - A portable, manual Braille dispenser - 1000 beads of each type (a total of 5000 beads) - A pre-prepared sign for customer demonstrations and a GravoTac material sample - All part numbers marked * below
49923*	Brush
49921*	Tool for removing swarf from cut out profiles (pointed end)
49922*	Tool for removing inserted beads (flat end)
48766*	1.550 mm drill for Braille, Onecut Ø 4.36 mm
48767*	1.565 mm drill for Braille, Onecut Ø 4.36 mm
48768*	1.580 mm drill for Braille, Onecut Ø 4.36 mm
49920*	A funnel to insert beads in the dispenser
48620	Flat-tipped, cylindrical, steel cutter for finishing on hard materials
48609	Twincut insert Ø 0.32 mm for cutting out Gravotac profile
48556	Braille Kit compatibility adaptator for ISx000 series (with serial number not ending with -10)
55095	Braille Kit compatibility adaptator for IS600/700/800 (note: semi automatic process)
22987*	Standard toolholder
49933	Stainless steel beads (x 10 000)
49934	Brass beads (x 10 000)
49935	Clear acrylic beads (x 10 000), manual system only
49936	Black acrylic beads (x 10 000), manual system only
49937	White acrylic beads (x 10 000), manual system only
53141	Braille option GravoStyle 5 Level 2

* supplied standard with Braille Kit 49959.

BRAILLE

a	b	c	d	e	f	g	h	i	j
1	12	14	145	15	124	1245	125	24	245
k	l	m	n	o	p	q	r	s	t
13	123	134	1345	135	1234	12345	1235	234	2345
u	v	w	x	y	z				
136	1236	2456	1346	13456	1356				

```
1 — ● ● — 4
2 — ● ● — 5
3 — ● ● — 6
```
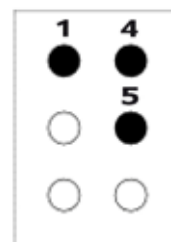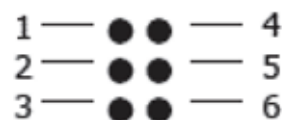
Gravotac™ is the material you need to produce Tactile Signs.

The GRAVOTAC™ process

Step 1

Adhere 3.2mm (1/8") profile material to 1.6 mm (1/16") or 3.2mm (1/8") substrate. Engrave using outline font.

Step 2

Weed (peel) excess profile material off substrate.

Step 3
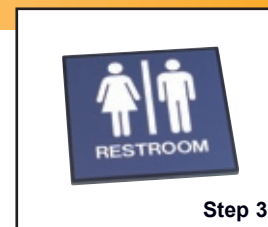
Result: A patented process for producing DDA & ADA compliant signage.

NEW For your outdoor applications, choose Gravotac™ Exterior. Suitable for laser engraving.

NEW Gravoply™ Ultraglow is a photoluminescent material suitable for DDA & ADA signage applications. Laserable. Suitable for outdoor use. See p.39 for more details.

For more information on the new Gravograph Braille Solution, contact us today
www.gravograph.com

GRAVOGRAPH

ETERNIT'Y evolution

SIGNAGE to meet all your signage needs in public, professional and residential environments
SIGNAGE designed to be modular, stylish and durable; the result of on-going research and product development
SIGNAGE combining practicality with distinction, and bringing added aesthetic value to your architectural living and working space
SIGNAGE from 8 different ranges, each with its own character and special uses
Made-to-measure solutions also available.

CLASSIC from Eternit'y

Contact us for details of the full range

Classic, flat design, with 10 mm finishing profiles

Door plates

Modular and interchangeable to evolve with your signage needs

Specially designed window system to enable you to update your messages

Directories

For signage in public places and general information signs, etc.

Pictograms

STAGES

VESTIAIRE

To identify places

GRAVOGRAPH

ETERNIT'Y evolution

Classic, flat design, with different finishing profiles

Polypropene finishing profile

Wall-mounted pictograms

Triangular finishing profile

Hanging directory

Rectangular finishing profile with text inserts
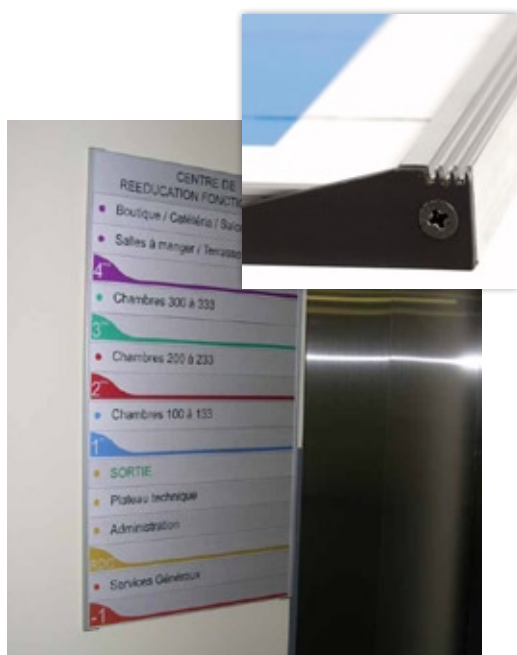
Wall-mounted information panel

Rounded finishing profile with material insert
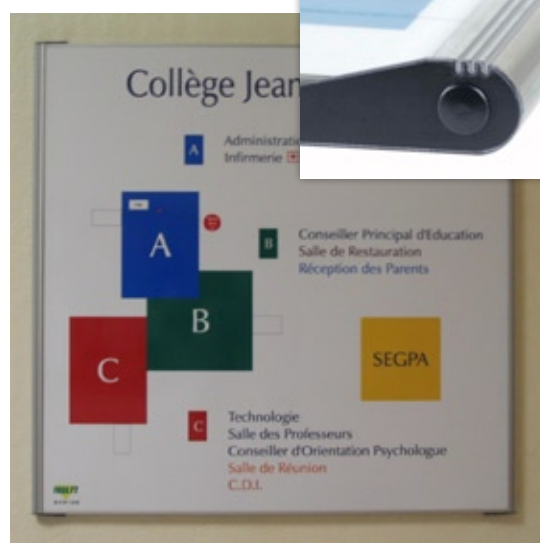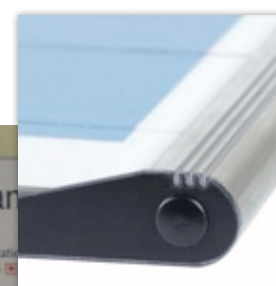
Wall-mounted directory

GRAVOGRAPH

ETERNIT'Y evolution

Classic, curved design

Door plates

Classic flag

Classic trestles

Daniel Martin - ADMINISTRATION

ACCUEIL
Horaires
8h30 - 12h00
14h00 - 17h30

Contact us for details of the full range

Classic, curved design - large format

NIVEAU 0

ACCUEIL
ESPACE D' ATTENTE
FISCALITÉ IMMOBILIÈRE
5ème BRIGADE
DE VÉRIFICATION

NIVEAU 1

RECETTE ÉLARGIE
DE POISSY NORD
(IFU)
CENTRE DES IMPÔTS
DE POISSY NORD

NIVEAU 2

RECETTE ÉLARGIE
DE POISSY
(IFU)
CENTRE DES IMPÔTS
DE POISSY

May be used in three
different ways:
- Free-standing
- Wall-mounted
- On a stand

Adjustable base
For panels of
10 - 210 cm

Available in standard A4 – A0 sizes. Other dimensions available on request.

GRAVOGRAPH

ETERNIT'Y evolution

MODERN from Eternit'y

Curved design

Door plates

Flags

Curved design - large format

Wall-mounted directories

Available in standard
A4 – A0 sizes.
Other dimensions
available on request.

Contact us for more information on the ETERNIT'Y evolution range.

GRAVOGRAPH

SIGN HOLDERS

Aluminium, available in silver and gold.

A.B. Utility Wall Plate Holder
Natural aluminium edges. Use double-sided tape or drill holes to mount.

	For inserts	Silver	Gold
A	100 x 25 x 1.6 mm	-	19475
B	100 x 25 x 1.6 mm	19482	-
	152.4 x 25.4 x 1.6 mm	30066	30067
	203.2 x 50.8 x 1.6 mm	19485	19476
	254 x 50.8 x 1.6 mm	30068	30069

C. Wall Bracket
To mount signs perpendicular to the wall. Slotted for 3.2 mm inserts. Cap nuts and screws included.
Suitable for signs of any width.

For inserts	Silver	Gold
height 50 mm	19486	30070
height 101 mm	19487	30071

D. Slimline Plate Holder

For inserts	Silver	Gold
177.8 x 25.4 x 1.6 mm	30072	30073

E. Double-Sided Plate Holder

For inserts	Silver	Gold
152.4 x 31.7 x 1.6 mm	30074	30075

F. Standard Plate Holder

For inserts	Silver	Gold
203.2 x 50.8 x 1.6 mm	30076	30077

G. Plate Stand

For inserts	Silver	Gold
200 x 1.6 mm	19480	19474

H. Eternit'y Classic Plate Holder

length 180 mm	46488
length 210 mm	46489
length 300 mm	46490

Aluminium Profiles, natural anodised
Part number 19488
Aluminium Profile (A), outer dimensions 150 x 44 mm, with acrylic cover (B) under which you slide the 1.6 mm engraved inserts (C).

L-150	1 insert 150 x 36 mm
L-36/1 x 114	1 insert 36 x 36 mm, 1 insert 114 x 36 mm
L-36/2 x 114	1 insert 36 x 36 mm, 2 inserts 114 x 18 mm
L-36/3 x 114	1 insert 36 x 36 mm, 3 inserts 114 x 12 mm
L-36/4 x 114	1 insert 36 x 36 mm, 4 inserts 114 x 9 mm

GRAVOGRAPH
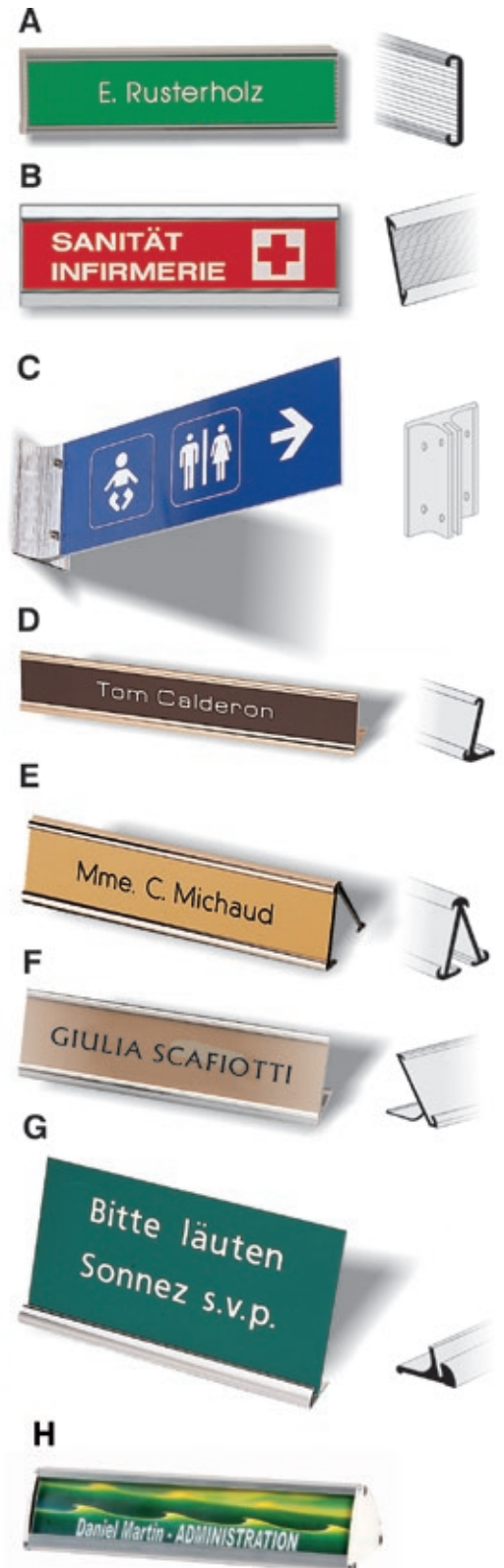
TAGS

A. Bicycle tags
Anodised aluminium, 1 mm thick. Size: 38 x 47 mm with a 8 mm Ø hole.

Description	Part Number
Natural aluminium	19300
Black	19301
Red	19302
Blue	19303

B. Shaped aluminium tags
1 - Anodised aluminium with a **4 mm ø hole**

	65 x 30 mm	90 x 40 mm
Red	19193	19197
Blue	19194	19198
Green	19195	19199
Gold	19196	19200

2 - Rounded anodised aluminium with a 4 mm ø hole

	30 mm	38 mm	50 mm
Red	30137	30141	30145
Blue	30138	30142	30146
Green	30139	30143	30147
Gold	30136	30140	30144

3 - Rectangular anodised aluminium with a 4 mm ø hole

	40 x 16 mm
Red	19189
Blue	19190
Green	19191
Gold	19192

C. Luggage tags
Cut to size service. Specify the material and colour.
Min. order 50 units.

D. Leather strap
220 x 13 mm, for luggage tags **30148**

E. Cloak room tags
Cut to size service. Specify the material and colour.
Min. order 50 units.
35 x 35 mm, die cut hole size 20 x 13 mm
40 x 40 mm, die cut hole size 29 x 9 mm
Other sizes on request.

F. Plant label holder
Zinc-plated tin, tilted model, shaft length 300 mm
for labels 120 x 53 x 1.6 mm **30149**
Zinc-plated tin, shaft length 600 mm
for labels 120 x 48 x 1.6 mm **30150**

G. Ties
1. "S"-Hook

Zinc-plated steel, length 28 mm	23919
Nickel-plated brass, length 28 mm	30151
Golden brass, length 21 mm	30152

2. Ring

Nickel-plated steel	ø 12 mm	19532
	ø 20 mm	19530
Golden brass	ø 12 mm	19533
	ø 20 mm	19531

GRAVOGRAPH

DOOR PLATES

Premium solid brass door plates

A.	100 x 32 mm	30078
B.	125 x 40 mm, with bell button	30079
C.	110 x 40 mm	30080
D.	105 x 42 mm	21812
E.	105 x 54 mm	22088
F.	100 x 40 mm	22089
G.	83 x 48 mm	22090
H.	135 x 65 mm	22091
I.	130 x 30 mm	22092
J.	97 x 33 mm	22093
K.	160 x 60 mm	22094
L.	100 x 28 mm	22095
M.	122 x 42 mm	22096
N.	126 x 36 mm	22097
O.	124 x 42 mm	22098
P.	120 x 55 mm	30081
Q.	180 x 60 mm	30082
R.	175 x 100 mm	30083
S.	150 x 95 mm	30084
T.	115 x 40 mm	30085

All door plates have a varnished surface to protect against oxidation.
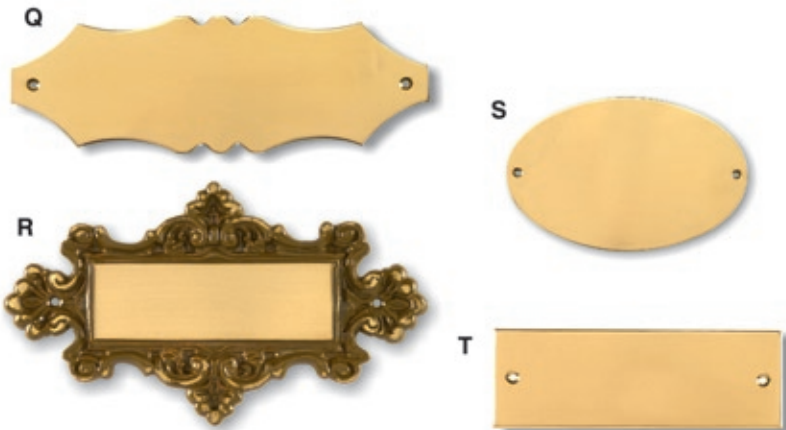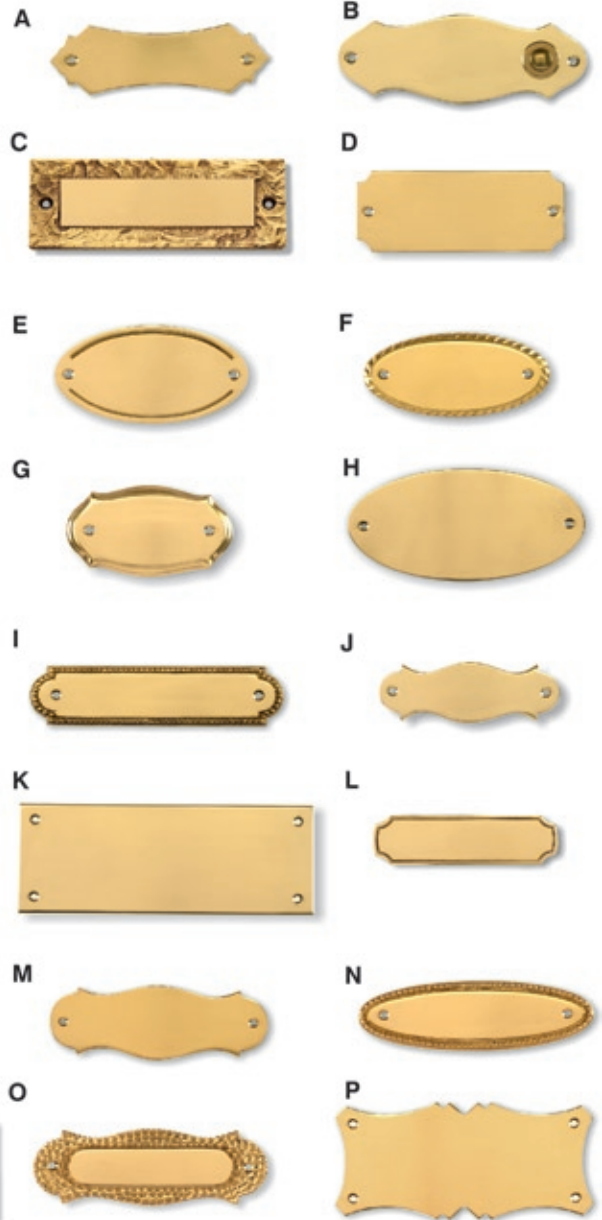
Gold'n door

New range of Brass door plates, high quality varnish, easy to engrave

48336
48335
Rec'n Wave
150 x 50 mm

48338
48337
Rec'n Round
145 x 45 mm

48334
48333
Oval
135 x 65 mm

48339
Domed
150 x 85 mm

DOOR PLATES

A range of 4 different shapes to choose from.
Choose the material and colour for fabricating
your door plates.

A — G.Zimmermann

B — G.Bachmann

C — HERZOG

D — 354 Heinrich Westermann

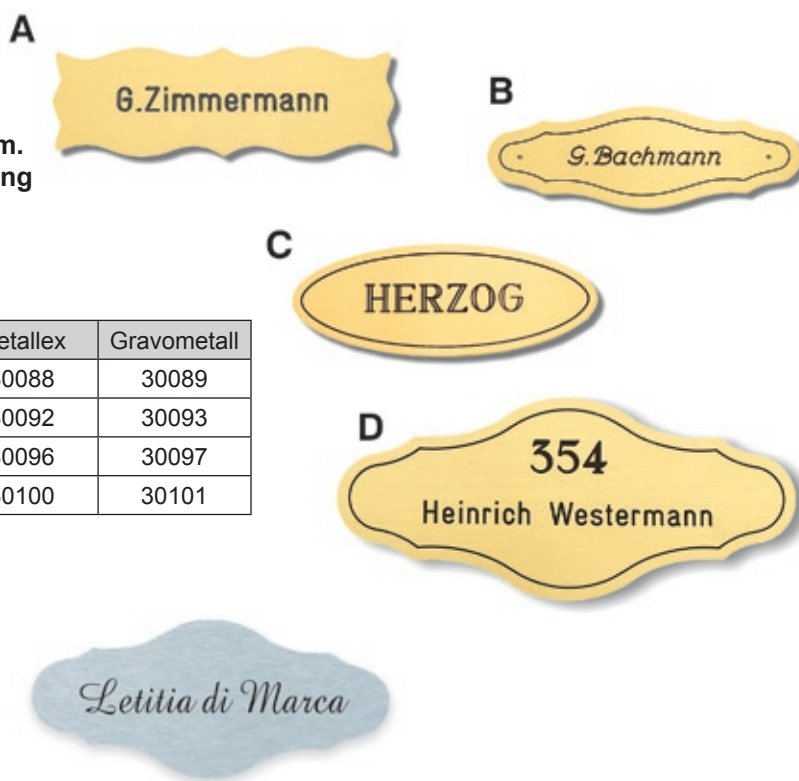|	Gravoply 1	Gravoply 2	Metallex	Gravometall
A. 125 x 40 mm	30086	30087	30088	30089
B. 125 x 42 mm	30090	30091	30092	30093
C. 115 x 45 mm	30094	30095	30096	30097
D. 180 x 80 mm	30098	30099	30100	30101

	Gravoxal, steel look
A. 125 x 40 mm	30102
B. 125 x 42 mm	30103
C. 115 x 45 mm	30104
D. 180 x 80 mm	30105

Letitia di Marca

ORNAMENTAL PLATES

A — Gemäldeschilder

B — Nicole

A

	Metallex 1.5 mm	Gravometall 0.6 mm	Gravoxal, steel look 1.0 mm
114.3 x 19 mm	30115	30116	30117
50.8 x 9.5 mm	30109	30110	30111
63.5 x 9.5 mm	30112	30113	30114
61 x 12 mm	22078	-	30124
76.2 x 12.7 mm	30118	30119	30120
71 x 15 mm	22079	-	30125
89 x 15.9 mm	30121	30122	30123

NEW

	Gravometall 0.6 mm	
	Satin gold	Glossy gold
61 x 12 mm	58786	58785
71 x 15 mm	58788	58787

B

	Gravoxal, steel look 1.0 mm
40 x 10 mm self-adhesive	30128

	Gravometall 0.6 mm	
40 x 10 mm self-adhesive	satin silver	49125
	glossy silver	61324
	satin gold	61323
	glossy gold	49577

GRAVOGRAPH

KEY RINGS

Modern, stylish designs, combining brushed and glossy metal.
Easy to engrave with cutters or diamonds.You may enhance the
engraving contrast by colouring with paint.
See colouring accessories p. 65.
Personalised key rings can be presented in an elegant, navy
blue, velvet gift wallet (see C).

A	Long - rectangular model	21816
B	Hexagonal model	21815
C	Velvet gift wallet	21817

Premium Solid Brass Key Rings
with Lacquered Surface Protection

A	Heart 40 x 40 x 1.5 mm	30129
B	Oval 65 x 35 x 1.5 mm	30130
C	Rectangular 57 x 35 x 1.5 mm	30131

Hotel Key Rings

		Silver	Gold
A	Rectangular 115 x 30 mm	30132	30133
B	Rounded 100 x 30 mm	30134	30135

Key Rings in Standard Engraving Materials
Cut to Size Service
Choose the material colour and thickness for
fabricating your key rings.

A	Circular ø 30 mm, hole ø 4 mm
B	Teardrop 44 x 29 mm, hole ø 4 mm
C	Hexagonal 58 x 37 mm, hole ø 4 mm
D	Teardrop 102 x 54 mm, hole ø 6 mm
E	Rectangular 65 x 18 mm, hole ø 4 mm rounded corners

GRAVOGRAPH

PET MEDALS

Golden and nickel-plated brass

Kennel
Golden **19320**
Nickel-plated **19319**
25 x 20 mm

Heart
Golden **23906**
31 x 30 mm

Lozenge
Golden **13015**
Nickel-plated **13014**
35 x 35 mm

Collar plate
Nickel-plated, 60 x 15 mm, **19306**
Golden, 50 x 12 mm, **19305**
Nickel-plated **19304**

Vertical bone
Gold brass **23917**
Silver brass **23918**
22 x 41 mm

Bone
Gold brass **19314**
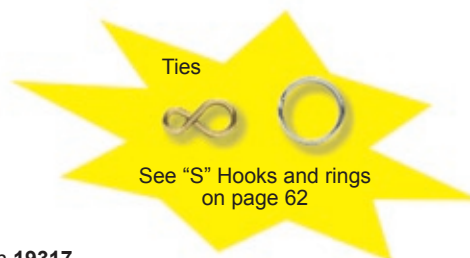41 x 26 mm

Ties

See "S" Hooks and rings on page 62

Round, golden **22065**
Nickel-plated **13012**
ø 33 mm

Round, golden **13016**
Nickel-plated **19318**
ø 26 mm

Round, golden **19317**
Nickel-plated **19316**
ø 22 mm

Anodised aluminium range

Heart 21 x 30 mm		Bone 33 x 26 mm		Round ø 27 mm		Octagonal 25 x 25 mm		Rounded Square 25 x 29 mm		Heart 25 x 28 mm	
red	**23903**	red	**23891**	red	**23897**	red	**23885**	gold	**30157**	gold	**30155**
silver	**23901**	silver	**23889**	silver	**23895**	silver	**23883**	blue	**30158**	purple	**30156**
blue	**23904**	blue	**23892**	blue	**23898**	blue	**23886**	green	**30159**		
green	**23905**	green	**23893**	green	**23899**	green	**23887**				
gold	**23902**	gold	**23890**	gold	**23896**	gold	**23884**				

Stainless steel range

ø 29 mm **30161**

ø 32 mm **30162**

Heart, 31 x 30 mm
23907

Collar plate, Engraving area 45 x 15 mm
19307

73 mm

For details of packaging: see price list

GRAVOGRAPH

READY-MADE BADGES

There's more than one way to buy a badge. Ready-made badges can save you time and money, and custom badges keep all your cusfomers satisfied, no matter how specialised their badge needs.

Classic Gravoply Badges are 2.4 mm thick, featuring square corners, bevelled edges and ready-attached metal fasteners. All fasteners are made of nickel-plated brass so they will not tarnish and discolour fabrics. For more information, see page 61, Badge Hardware. If you do not find the specific badge type you are looking for, please contact us for more details on our badge fabrication offer.

1 - GRAVOPLY 1, 64 x 16 x 2.4 mm

	Pin	Snap clip	Clutch
Black/White	30163	30165	30166
White/Black	30169	30171	30172
Red/White	30175	30177	30178
Azure Blue/White	30181	30183	30184
Yellow/Black	30187	30189	30190
Dark Green/White	30193	30195	30196

2 - GRAVOPLY 1, 75 x 20 x 2.4 mm

	Pin	Super clip	Snap clip	Clutch
Black/White	30199	30200	30201	30202
White/Black	30205	30206	30207	30208
Red/White	30211	30212	30213	30214
Azure Blue/White	30217	30218	30219	30220
Yellow/Black	30223	30224	30225	30226
Dark Green/White	30229	30230	30231	30232

3 - GRAVOPLY 2, 64 x 16 x 2.4 mm

	Pin	Snap clip	Clutch
Black/White	30235	30237	30238
White/Black	30241	30243	30244
Red/White	30247	30249	30250
Azure Blue/White	30253	30255	30256
Yellow/Black	30259	30261	30262
Dark Green/White	30265	30267	30268

4 - GRAVOPLY 2, 75 x 20 x 2.4 mm

	Pin	Super clip	Snap clip	Clutch
Black/White	30271	30272	30273	30274
White/Black	30277	30278	30279	30280
Red/White	30283	30284	30285	30286
Azure Blue/White	30289	30290	30291	30292
Yellow/Black	30295	30296	30297	30298
Dark Green/White	30301	30302	30303	30304

5 - METALLEX, 64 x 16 x 2.4 mm

	Pin	Snap clip	Clutch
Glossy Gold	30307	30309	30310
Glossy Silver	30313	30315	30316
Brushed Gold	30319	30321	30322
Brushed Silver	30325	30327	30328

6 - METALLEX, 75 x 20 x 2.4 mm

	Pin	Super clip	Snap clip	Clutch
Glossy Gold	30331	30332	30333	30334
Glossy Silver	30337	30338	30339	30340
Brushed Gold	30343	30344	30345	30346
Brushed Silver	30349	30350	30351	30352

JAMES DICKENS
INSTRUCTOR

Cedric Dumont
Chef de Service

Dr. Lea Brunnert

Eric de Baer

Franca di Bianco

Silver

Rana Anwar

Gold

Black

White

Plastic Frames

Add a touch of elegance to any badge. Size 71 x 21 mm for plastic inserts 66 x 16 x 0.8 mm. Sold with or without fastener.

Silver	19355
Gold	19354
Black	19352
White	19353

GRAVOGRAPH

BADGE HARDWARE

FOR HEAT FUSING IN OUR WORKSHOP
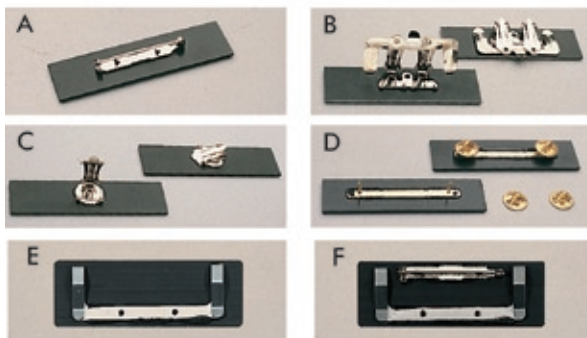
Classic Badge Fasteners

Made of nickel-plated brass. Choose the material colour and thickness for fabricating badge blanks.

Description	Part No.
A. Safety Pin	30355
B. Super Clip	30356
C. Snap Clip - swivel	30357
D. Clutch	30358
E. Combi Clip	30359
F. Combi Clip and Safety Pin	30360

FOR SELF-ASSEMBLY

Badge Hardware for Gravofix

Made of nickel-plated brass. Feature plastic backing.
Make durable bonding quick and easy with Gravofix.

G. Safety Pin	19345
H. Super Clip	30361
I. Gravofix - 25 cl	19360
J. Plastic Bottle	19359
K. Snap Clip - swivel	19346
L. Clutch	30362
M. Pin with clutch	30363
N. Gravofix Kit (100 safety pins G + Gravofix 25cl **I** + plastic bottle **J**)	25730

Pressure-Sensitive Hardware

Our latest, best-selling hardware with pressure-sensitive adhesive backing. Simply peel back the liner and attach the adhesive bonds to the badge.
No need for chemical or heat fusing.

O. Safety Pin	30364
P. Standard Magnetic Fastener	19362
Q. Jumbo Magnetic Fastener	30365
R. Alligator Clip	30366
S. Universal Clip with Pin	19358
T. Crocodile Clip *	30367

* With its 2-component bonds, this clip is specially designed for durable bonding on plastic and metal badges.

Card holder

U. Swivel Fastener with Clip	19357
V. Clear Vinyl Badge Holder	19356

GRAVOGRAPH

MECHANICAL FASTENING

PLUG CHAIN

For attaching tags and labels to a wide range of objects (e.g. suitcases, pipes, key rings etc.)
Made of nickel-plated brass, beads of 2.25 mm diameter.

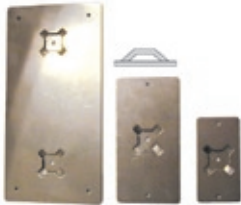|	
100 x 150 mm with fastener	19534
10 x 1.5 m without fastener	19535
box of 100 fasteners	19536

WOODEN SUPPORT

19470
Wooden support to enhance engraved plates
Dimensions: 340 x 240 x 20 mm
Colour: tropical hardwood
Packaging: single unit

STAINLESS STEEL SUPPORTS

A simple solution for labelling pipes which are too hot to use Gravofoil (i.e.over 70° C.)
Fix your label onto a stainless steel support, ensuring that the label is not in direct contact with the pipe. Use the collar provided to attach the support to the pipe.
Slip through the cross-shaped imprints before tying to the pipe.
Rounded corners.
The standard range:

Stainless steel supports	Part No.
80 x 40 mm	19547
120 x 60 mm	19548
200 x 100 mm	19549

Hole diameter: 3.2 mm
Packaging: 10 supports

Stainless steel collars	Part No.
3 metres & 8 heads	19550
20 metres & 50 heads	19551

Steel collars	Part No.
3 metres & 8 heads	19552
20 metres & 50 heads	19553

Plastic collars	Part No.
50 fastening collars	19546

SCREW AND SCREW COVER

For a perfect finish to your mounted plates.
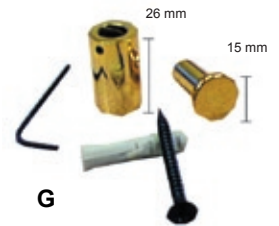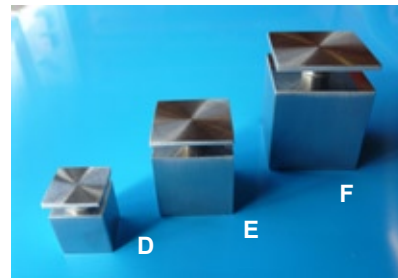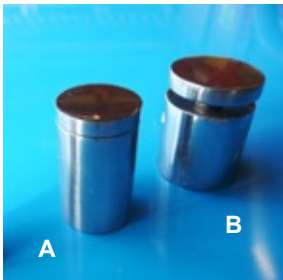
	Gold	Silver
4 x 20 mm, 12 mm head	25731	25732
4 x 30 mm, 15 mm head	25733	25734
4 x 30 mm, 18 mm head	25735	25736

Packaging: 100 per pack.

GRAVOGRAPH

MECHANICAL FASTENING

SPACER FASTENENERS

The ideal fasteners to add a finishing touch to professional plates, hotel signage etc. Available in several models. Delivered in sachets of 4 fasteners.

	Part No.	Description	Finish	Size	Distance from the wall	Material thickness	Screw diameter	Pack of
A	61007	4 rounded spacers	glossy stainless steel	Ø 20 mm	30 mm	0 - 11 mm	5 mm	4
B	61008	4 rounded spacers	glossy stainless steel	Ø 25 mm	25 mm	3 - 20 mm	5 mm	4
C	61009	4 rounded spacers	brushed stainless steel	Ø 14 mm	25 mm	3 - 15 mm	5 mm	4
D	61010	4 square spacers	brushed stainless steel	14 x 14 mm	14 mm	3 - 5 mm	5 mm	4
E	61011	4 square spacers	brushed stainless steel	22 x 22 mm	22 mm	3 - 10 mm	5 mm	4
F	61012	4 square spacers	brushed stainless steel	30 x 30 mm	30 mm	6 - 20 mm	5 mm	4
G	19471	4 rounded spacers	golden	Ø 15 mm	26 mm	0 - 16 mm	5 mm	4
H	19472	4 rounded spacers	silver	Ø 15 mm	26 mm	0 - 16 mm	5 mm	4
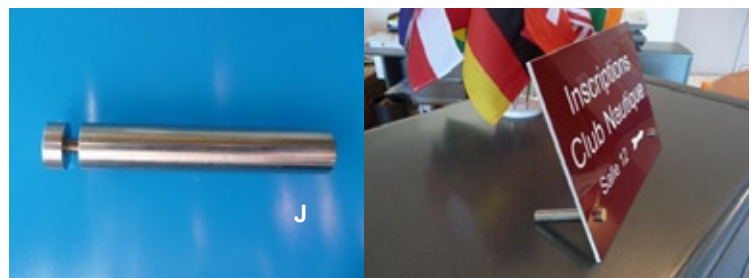
	Part No.	Description	Finish	Size	Distance from the wall	Material thickness	Screw diameter	Pack of
I	61013	4 flag brackets	glossy stainless steel	Ø 16 mm	14 mm	up to 8 mm	4 mm	4
J	61014	2 fixing plate holders	stainless steel	Ø 10 mm	53 mm	10 mm	-	2

www.gravograph.com

GRAVOGRAPH

ENGRAVING SUPPLIES

LUBRICATION

Soluble oil
12913
Product designed for engraving on glass.
Volume: 1 LTR.

Engravolube
26887
Multi-purpose engraving lubricant.
Helps improve the life span of your engraving tools.
Volume: 100 ml.

Vargol
21780
Lubricant for VARGA circular saws. Synthetic oil for use with any material.
Volume: 500 ml.
Lubricating bottle
21781
Vargol dispenser for VARGA saw.

Tarfil
19526
Designed for metal engraving and cutting.
Extremely hard-wearing lubricant.
Bottle: 215 g

BIO DEGRADABLE

Lubricant
23494
For use with lubricating system. Synthetic and biodegradable for machining metals. Volume: 2 LTR.

Polycoupe
19527
In handy packaging for clean results.
Ideal for milling on metals, engraving or cutting.
Spray: 250 ml

Surfex
30368
The perfect lubricant for engraving and cutting aluminium.
Bottle: 1 LTR.

CLEANING

Industrial degreaser
23912
Cleans grease, oil, dust and sticky patches. Can be used on most painted and non painted metals, ceramics, glass and various plastics.
Volume: 500 ml.

Universal cleaner
23913
Ideal for cleaning the surface of plates before fixing. Not recommended for use on ABS.
Volume: 1 LTR.

GLUES

Spray mount
23914
Aerosol for non-permanent fixing and repositioning of lightweight materials.
Not recommended with expanded polystyrene.
Volume: 500 ml.

Adhesive mounting tape
20151
For temporary mounting of plates
Size: 25 m x 25 mm.
Adhesive tape
For long-term mounting of engraved plates
30 m x 20 mm, **21121**
50 m x 14 mm, **30369**
50 m x 19 mm, **30370**
50 m x 50 mm, **30372**
66 m x 19 mm, **47237**

Protective adhesive tape
19528
To protect jewellery and brass door plates during engraving.
Not required for machines fitted with laser pointer.
Size: 100 m x 50 mm

Gravofix
19360
Tin of glue especially designed for fixing plastic-backed pins to your badges.
Volume: 250 ml

GRAVOGRAPH

ENGRAVING SUPPLIES

COLOURING

OXIDISING AGENTS

Gravoxide
21129
Designed to blacken fine engraving on Gravometall.
Packaging: 90 ml bottle with application pad.

Aloxide
21130
Designed to blacken fine engraving on glossy anodised aluminium.
Packaging: 90 ml bottle with application pad.

COLD WAX STICKS

Suitable for colouring small characters (e.g. on pet medals). Range of 8 colours available.

Silver	20214		Black	20218
Yellow	20217		Green	20221
Red	20220		Blue	20216
White	20215		Gold	20219

Packaging: Box of 5 sticks of the same colour

DILUTER

2 cleaning agents available:

- application diluter to clean your plates after colouring. **19469**

- cleaning diluter to clean your tools. **19468**

PAINT

Gravolaque, polyurethane paint designed to colour subsurface of Gravoglas 1 and 2, anodised aluminium and brass.

Black	19459		White	19460		Radiant Gold	19467
Red	19461		Blue	19462			
Yellow	19463		Green	19464			
Gold	19465		Silver	19466			

Volume: 1/2 LTR

Volume: 1/4 LTR

Nitrolaque

White	30373
Red	30375
Black	30374
Blue	30377

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

Volume: 1/4 LTR

CERMARK - For metal marking with CO_2 laser

19529
Surface treatment for creating black engraving on metal with a CO_2 laser machine.
Paste: 100 g

Available in paste, spray and tape format.

GRAVOGRAPH

ENGRAVING CUTTERS

| How to select cutting width											
Height of character	0,4 mm 1/64"	0,8 mm 1/32"	1,5 mm 1/16"	3 mm 1/8"	6 mm 1/4"	8 mm 5/16"	12 mm 1/2"	19 mm 3/4"	25 mm 1"	32 mm 1¼"	50 mm 2"
The width of the cut is directly related to the height of the engraved character. This chart is a useful guide to help you select cutter tip widths for various engraved letter heights. **Width of cutter**				B	B	B	B	B	B	B	B
Single line font	0,127 mm .005"	0,25 mm .010"	0,38 mm .015"	0,5 mm .020"	0,76 mm .030"	1,0 mm .040"	1,52 mm .060"	2,28 mm .090"	3,17 mm .125"	4,34 mm .171"	6,35 mm .250"
Multi line font	0,127 mm .005"	0,127 mm .005"	0,25 mm .010"	0,25 mm .010"	0,38 mm .015"	0,38 mm .015"	0,76 mm .030"	1,02 mm .040"	1,52 mm .060"	1,52 mm .060"	2,30 mm .090"

Font types are critical to engraving quality and time

There are 2 main types of fonts for engraving: TrueType (print fonts), and pre-engineered engraving fonts.

TrueType fonts are outline fonts. They can be filled for a solid, bold look. Filling requires the engraving programme to calculate the tool paths.

Engraving fonts are pre-engineered fonts with optimised tool paths, designed for reducing engraving time and optimising engraving quality. Engraving fonts are optimised with reduced tool lifts, tool paths start from the inside of a contour - so you don't lose the leading edge of a filled contour which causes "dimpling". Tool path direction is predetermined for high quality engraving. The engraving path order is optimised as a time saving measure. Use single-line fonts to increase production speed.

When selecting cutters, please use the B chart above as a guideline for choosing the appropriate sized tip for engraving.

Cutter up travel

GRAVOGRAPH
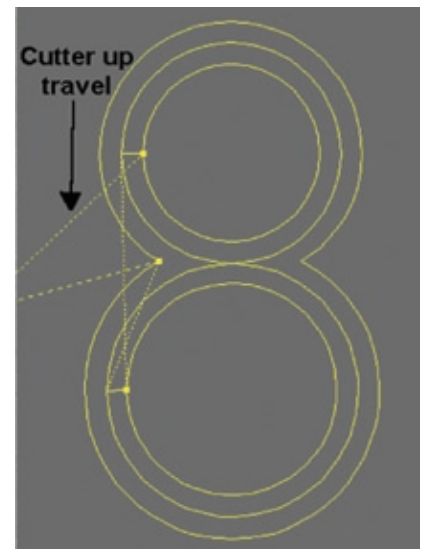
SETTING YOUR CUTTERS TO ZERO FOR SURFACE & SUBSURFACE ENGRAVING
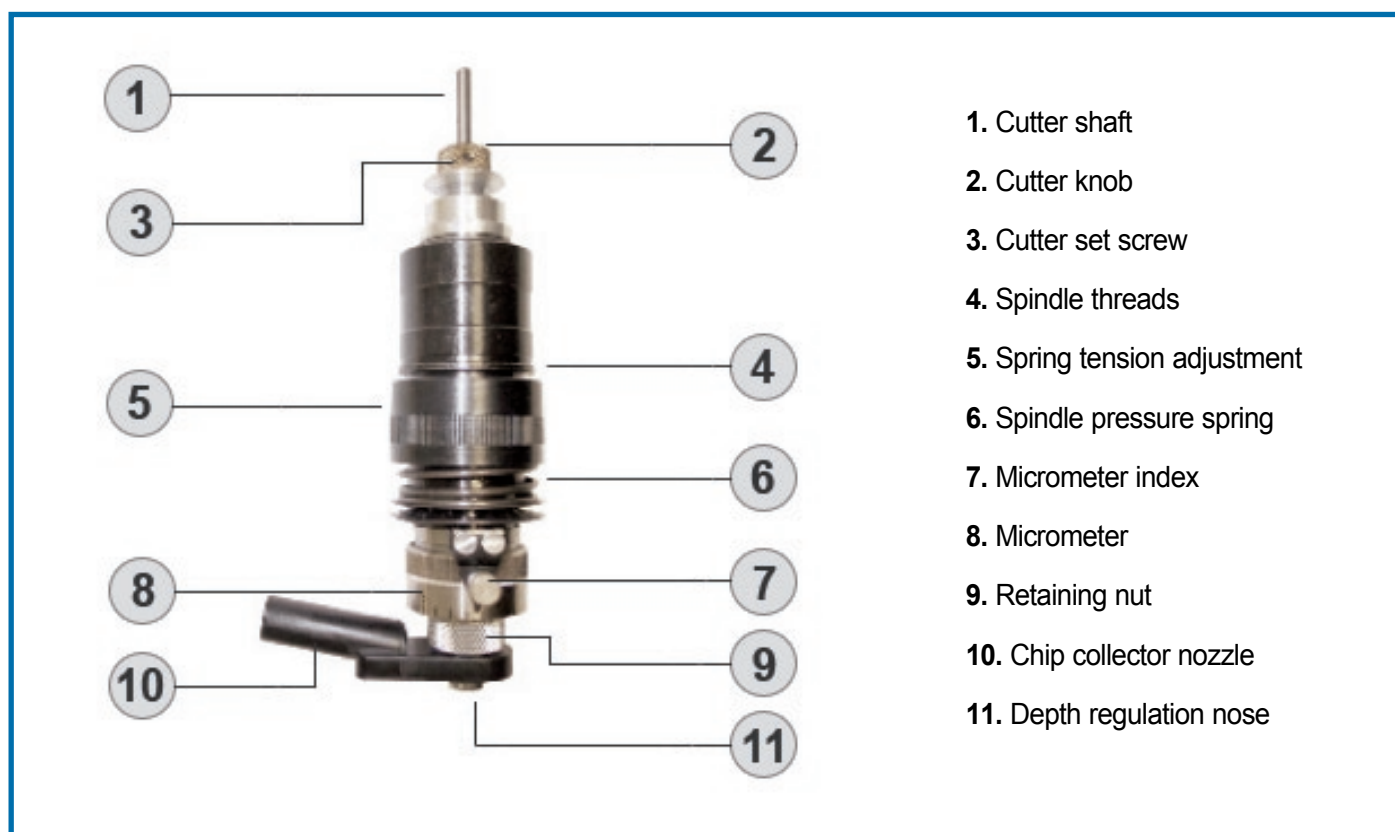
1. Cutter shaft

2. Cutter knob

3. Cutter set screw

4. Spindle threads

5. Spring tension adjustment

6. Spindle pressure spring

7. Micrometer index

8. Micrometer

9. Retaining nut

10. Chip collector nozzle

11. Depth regulation nose

This procedure is a one-time operation performed before using a new engraving cutter. It is a best practice that will improve productivity. It will allow changing cutters without having to re-adjust the micrometer

1. Turn micrometer gauge in the direction of increasing numbers until it stops

2. Back off 3 full turns to 0. Tighten the micrometer set screw. This will allow up to 1.9 mm engraving/cutting depth to be dialled in later. If you are cutting out 3.18 mm material, back off 5 full turns.

3. Screw in desired cutter (reverse threads) making sure cutter tip is not sticking out of the nose cone. You may need to adjust cutter offset with yellow cutter wrench.

4. Using the arrows on the remote control, move spindle over flat table.

5. Press Z on the remote control (LCD reads Z = 0.00 mm ⇕ to change).

6. Press the down arrow on the remote control until nose cone touches the table
    (& there is slight separation between the snap ring and spindle assembly).

7. Loosen the black set screw on the brass collar of the cutter (with yellow wrench) and carefully lower the cutter down until it just touches the material. Then tighten set screw.

8. Without moving the spindle, repeat the previous step on all the plastic cutters and place in cutter rack.

9. Press tick ✓ on the remote control to raise the spindle back up. Press X to cancel the XY jog mode.

GRAVOGRAPH

ENGRAVING CUTTERS

ONECUT

3.17 mm
Top loading cutters

6.35 mm
Top loading cutters

Carbide cutter

Steel cutter

Parallel steel cutter

Round base cylindrical steel cutter

Carbide cutter

Compatible with M20, IM4, IM3, ITM, ITL, IF3

Compatible with IRV

Cutting width	NEW Part No.	Old Part No.
0.25	48793	20134
0.32	48794	20135
0.50	48795	20137
0.75	48796	20138
1.00	48797	20140
1.25	48798	20141
1.50	48799	20142
2.00	48800	20143
3.00	48801	20144
45°	51368	20136
90°	51372	20139

Cutting width	NEW Part No.	Old Part No.
0.00	48773	20156
0.25	48774	20158
0.32	48775	20159
0.50	48776	20161
0.75	48777	20162
1.00	48778	20165
1.25	48779	20166
1.50	48780	20167
2.00	48781	20168
3.00	48782	20170
15°	48802	20157
45°	48807	20160

Cutting width	NEW Part No.	Old Part No.
1.00	48783	20174
1.50	48784	20175
2.00	48785	20176
2.50	48786	20177
3.00	48787	20178

Cutting width	NEW Part No.	Old Part No.
1.00	48788	20179
1.40	48789	20180
2.00	48790	20181
2.50	48791	20182
3.00	48792	20183

Cutting width	NEW Part No.	Old Part No.
0.32	48836	20940
0.50	48837	20942
0.75	48838	20943
1.25	48839	20946
2.00	48840	20948
3.17	48841	20949
6.00	48842	20951

⚠ Cutter references have changed. Please use the new references when ordering (see conversion table opposite.) Every cutter is engraved with its reference.

48809

ONECUT

4.36 mm
Top loading cutters

Steel cutter

Carbide cutter

Parallel steel cutter

Round base cylindrical steel cutter

1/4 round carbide cutter

Compatible with TXL, TX3, IRV, VX Range, V-3000, V-4000, UNICA, VEGA, IS Range, M40 Range

Cutting width	NEW Part No.	Old Part No.
0.00	48808	21051
0.25	48809	21053
0.32	48810	21054
0.50	48811	21056
0.75	48812	21057
1.00	48813	21060
1.25	48814	21061
1.50	48815	21062
2.00	48816	21063
3.17	48818	21065
4.36	48819	21066
15°	48830	21052
45°	48831	21055
Special*	48832	21058

* for drilling and cutting

Cutting width	NEW Part No.	Old Part No.
0.25	48820	21036
0.32	48821	21037
0.50	48822	21039
0.75	48823	21040
1.00	48824	21042
1.25	48825	21043
1.50	48826	21044
2.00	48827	21045
3.17	48828	21046
4.00	48829	21047

Cutting width	NEW Part No.	Old Part No.
1.00	51355	21071
1.50	51356	21072
2.00	51358	21073
2.50	51359	21074
3.00	51360	21075
3.50	51361	21076
4.00	48834	21077

Cutting width	NEW Part No.	Old Part No.
1.00	51362	21078
1.50	51363	21079
2.00	51364	21080
2.50	51365	21081
3.00	51366	21082
3.50	51367	21083
4.00	48835	21084

Cutting width	NEW Part No.	Old Part No.
0.32	51373	–
0.50	51374	21102
0.75	51375	21103
1.25	51376	21104
2.00	51377	21105
3.00	55984	12226

Cutter recommendations for different materials

		Plastics			Metals						Glass
		Gravoply	Gravoglas	Gravostrat	Aluminium	Brass	Bronze	Soft metal	Stainless steel	Precious metals	
Cutters	steel	X	X			X	X	X		X	
	carbide	X	X	X	X	X	X	X	X	X	
	diamond				X	X	X	X	X	X	X

GRAVOGRAPH

ENGRAVING CUTTERS
TWINCUT

- **Multipurpose.** A range of inserts to engrave, cut and drill the widest range of materials (plastic, plexiglas, laminates, aluminium, brass, etc.)
- **Interchangeable.** A tool-holder with length preset, designed to hold any insert from the Twincut range.
- **Proven quality.** Twincut's micrograin carbide technology ensures very durable resistance to wear and tear, achieving the best possible engraving results.
- **Economical.** The life span of the toolholders is practically unlimited. Only the active parts are replaced.
- **Compatible.** Twincut tools can be used with 4.36mm diameter spindles and collet spindles (top-loading - length preset).
- **Direct fixing** of the insert into 3.17mm diameter collet.
- **Useful and progressive.** The complete range of engraving, cutting, surfacing and drilling inserts allows you to adapt your equipment as your applications evolve.

⚠ Cutter references have changed. Please use the new references when ordering (see conversion table below.) Every cutter is engraved with its reference.
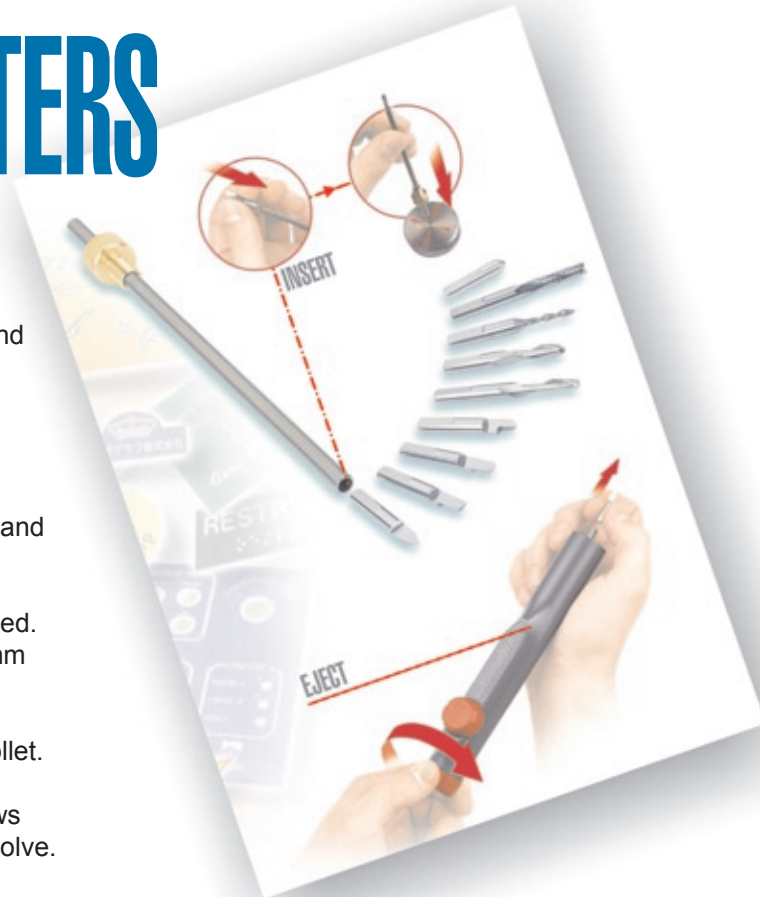
Toolholder
All inserts must be used with this toolholder
Part No. 22987

Engraving insert for common materials
Use on brass, Gravoply, aluminium

Cutting width	NEW Part No.	Old Part No.
0.25	48608	22991
0.32	48609	22992
0.50	48610	13808
0.75	48611	22994
1.00	48612	22995
1.25	48613	22996
1.50	48614	22997
1.75	48615	22998
2.00	48616	22999
2.50	48617	23000
3.00	48618	23001

Jewellery engraving insert
Signet rings, bracelets, medallions

Cutting width	NEW Part No.	Old Part No.
0.25	50135	23002
0.32	50136	23003
0.50	50137	23004
0.75	50138	23005

Insert for engraving on hard metals
Use on soft and semi-hard steel

Cutting width	NEW Part No.	Old Part No.
0.25	48629	23046
0.32	48630	23047
0.50	48631	23048
0.75	48632	23049
1.00	48633	23050
1.25	48634	23051
1.50	48635	23052

Parallel engraving insert
Drilling, filling, engraving on Gravoply

Cutting width	NEW Part No.	Old Part No.
1.00	48619	23016
1.50	48620	23017
2.00	48621	23018
2.50	48622	23019
3.00	48623	23020

Round nose engraving insert
Use on Gravoglas for subsurface engraving

Cutting width	NEW Part No.	Old Part No.
1.00	48624	23026
1.50	48625	23027
2.00	48626	23028
2.50	48627	23029
3.00	48628	23030

GRAVOGRAPH

TWINCUT

1/4 round engraving insert
For use on stainless steel, anodised aluminium

Double cone engraving insert
For use on teel or stainless steel

15° insert for cutting out plastic
For cutting out letters and shapes in plastic

45° insert for cutting out plastic
Bevelled edge, v-grooved surface

Insert for cutting out epoxy PCB
For cutting-out printed circuit boards

Cutting width	NEW Part No.	Old Part No.
0.25	48636	23031
0.32	48637	23032
0.50	48638	23033
0.75	48639	23034
1.00	48640	23035
1.25	48641	23036
1.50	48642	23037
1.75	48643	23038
2.00	48644	23039

Cutting width	NEW Part No.	Old Part No.
0.25	48645	23040
0.32	48646	23041
0.50	48647	23042
0.75	48648	23043
1.00	48649	23044
1.25	48650	23045

Cutting width	NEW Part No.	Old Part No.
0.32	48713	23054

Cutting width	NEW Part No.	Old Part No.
0.32	48925	23055

Cutting width	NEW Part No.	Old Part No.
1.00	48651	23057
2.00	48652	23058

> ⚠ Cutter references have changed.
> Please use the new references
> (see conversion table below.)
> Every cutter is engraved with its reference.

2- lip cutter for metal cutting
For front panels, letter cutting, etc.

1- lip cutter for acrylic cutting
For use on GRAVOGLAS, GRAVOMETALL

Specific drilling insert for epoxy PCB
Epoxy coated printed circuit boards

Diamond insert
Non-rotating tracing diamond for all shallow marking jobs

Diamond insert
Rotating diamond (rotary motor spindle) for engraving on crystal, glass or hard materials

Cutting width	NEW Part No.	Old Part No.
0.80	48657	-
1.00	48658	23062
2.00	48659	23063
3.00	48660	23064

Cutting width	NEW Part No.	Old Part No.
0.80	48653	-
1.00	48654	23067
2.00	48655	23068
3.00	48656	23069

Cutting width	NEW Part No.	Old Part No.
0.50	48661	22989
0.80	48682	26412
1.00	48683	22990
1.20	48684	26415
1.40	48685	26416
1.50	48686	26417
2.00	48687	26422
2.50	48688	26423

Cutting width		Part No.
0.20		23061

Cutting width		Part No.
0.20		23060

Twin-cut kits	Part No.
Twin-cut Starter kit	23056
Twin-cut kit 6 inserts	26860
Twin-cut kit 10 inserts	25424
Twin-cut kit 25 inserts	25425
Twin-cut kit 40 inserts	25426

GRAVOGRAPH

ENGRAVING CUTTERS

PERCUT Professional cutters

• Professional cutters for cutting and drilling with High Frequency (HF) Spindles.
• Engraving cutters for collet or HF spindles.

All 4.0 mm diameter cutters can be used with the toolchanger on IS6000/7000/8000.

Engraving cutter for HF and Collet spindles

4 mm   **6 mm**

Cutting and drilling tool for HF spindle and Collet spindles

⚠ Cutter references have changed.
Please use the new references
(see conversion table below).
Every cutter is engraved with its reference.

Carbide cutter
For use on aluminium and plastics

Carbide cutter
For use on aluminium and plastics

Spiral 3-lip cutter
Tip diameter 3.17 mm

Cutting width	NEW Part No.	Old Part No.
0.25	48757	23081
0.32	48758	23082
0.50	48759	23083
0.75	48760	23084
1.25	48761	23085

Cutting width	NEW Part No.	Old Part No.
0.32	48762	23087
0.50	48763	23088
0.75	48764	23089
1.25	48765	23090

Cutting width	Part No.
2.00	23079

Diamonds

Diamond tip

	Part No.
3.17 fixed	20147
3.17 rotating	20149
For diamond spindle	12224
4.36	21050

Glass engraving	
Diamond tip	12909
0.75 mm	27044
1.50 mm	21753

Granite engraving	
1.6 mm tip	20932
3.1 mm tip	20933

Cutters

Cutters for grinding machines

Cutting width	NEW Part No.	Old Part No.
Steel cutter 45° for B4	48807	20160
Steel cutter 90° for B4	48806	20163
Carbide cutter 45° for B4	51368	20136
Carbide cutter 90° for B4	51372	20139
Carbide cutter 45° for B6	48846	21022
Carbide cutter 90° for B6	48847	21023

Cutter knobs

	Part No.
4.36. preset	22740
6.35. preset	22741
3.17	20148
4.36	12335
4.36	10488
6.35	20973
Screws for knobs	12574

The quality of engraving relies upon using the right tool as well as using a sharp tool. Gravograph grinding machines and grinding service are indispensable for your engraving.

GRAVOGRAPH

MACHINE JIGS

Gravograph provides an extremely wide selection of jigs, developed for and with customers. All Gravograph jigs are compatible with all Gravograph machines.
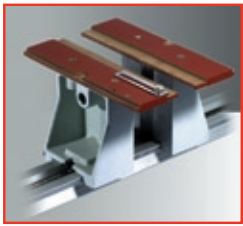
Standard celeron
150 mm jigs
Part No. 10165

Aluminium
150 mm jigs
Part No. 20189

Aluminium
240 mm jigs
Part No. 21131

Circuit boards jigs
with locating pins
Part No. 16638

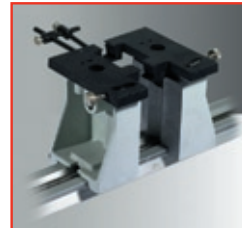Celeron unmachined
jigs 152 x 38 mm
Part No. 10179
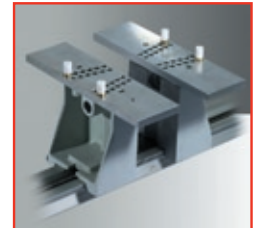
Bracelet/Baby ID jigs
any shape/thickness
Part No. 28192

Watch/medal jigs
fit any shape
Part No. 10182

Spectacle bow jigs
adjustable width
Part No. 20190

Cutlery jigs
with adjustable stops
Part No. 20129

Cutlery jigs
with relocatable pins
Part No. 22370

Celeron badge
103 x 36 mm jigs
Part No. 20128
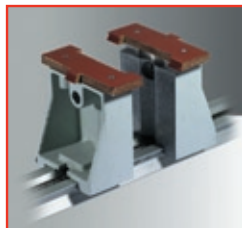
Pen & tubular object jigs,
hold 2,3 or 4 pts.
Part No. 10169

Spectacle bow jigs
adjustable width
Part No. 20842

Signet ring jigs
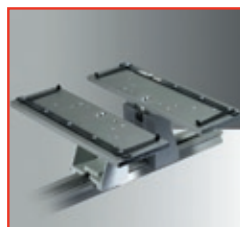with protection pad
Part No. 20194

Jewellery vice
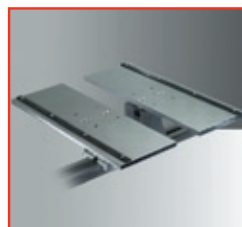X - Y self centring
Part No. 22870

Multigrip jigs with
sliding pins & stops
Part No. 20196
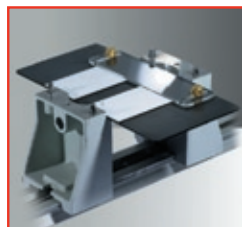
Gravofoil vice
Part No. 22868

Large plate/salver jigs
with relocatable pins
Part No. 20192

Large plate, aluminium
310 x 110 mm jigs
Part No. 20191

Gravogrip
1220 x 610 mm: Part No. 26528
100 cm²: Part No.26362

NEW

Bangle bracelet jigs
Part No. 51729

NEW

Cell phones jigs
Part No. 49510

Swiss army knife jigs
Part No. 28067

Part No. 30050

AVAILABLE FOR RING ENGRAVING

Multi medals jig
Part No. 28060

Part No. 12500

GRAVOGRAPH

REGULATING NOSES

Depth noses are essential to ensure perfect and constant engraving depth. Gravograph offers a wide variety of noses:

Steel noses — the most commonly used noses (resistant and highly polished for minimum plate scratching)
Teflon noses — for engraving on easily scratched material, such as metal
Swivel noses — for engraving on curved surfaces (steel or teflon)
Prismatic nose — for engraving on jewellery items such as ID bracelets or bangles
Vacuum noses — same as steel nose and can be linked to a swarf extractor
Diamond nose — provides better rigidity & accuracy than a non rotating diamond cutter - mainly used for photo engraving and jewellery.

NB: Gravograph noses are compatible with all Gravograph machines.

Steel nose
0.7 mm diameter
Part No. 20130

Steel nose
1.5 mm diameter
Part No. 20131

Steel nose
2.4 mm diameter
Part No. 21755

Steel nose
2.5 mm diameter
Part No. 20132

Steel nose
4.6 mm diameter
Part No. 21086

Steel nose
16 mm diameter
Part No. 20960

Steel swivel nose
2.5 mm diameter
Part No. 22464*

Teflon swivel nose
3.5 mm diameter
Part No. 22481*

Steel swivel nose
5 mm diameter
Part No. 13058*

Teflon nose
3 mm diameter
Part No. 20133

Fixed
diamond nose
Part No. 22884

Prismatic swivel
nose
Part No. 22885

Vacuum nose
1.5 mm diameter
Part No. 21674

Vacuum nose
3.3 mm diameter
Part No. 21672

Vacuum nose
8 mm diameter
Part No. 21673

Teflon long-reach vacuum
noses
2.5 mm diameter
length: 12, 22, 27 mm
Part No. 28061 / 28062 / 28063

*These noses can be converted into vacuum noses with adaptor ref. 12720

www.gravograph.com

GRAVOGRAPH

GRAVOGRAPH on the web

www.gravograph.co.uk

■ Detailed information on the Gravograph product offer, illustrated by videos:

- C.N.C. engraving machines
- CO_2, Yag and Fibre laser engraving systems
- Micro percussion marking systems
- Innovative software dedicated to the engraving industry
- Complete training solutions designed for your engraving needs
- Customer-focused service packages

■ Information on new product releases,

■ Sales events: exhibitions, open door days, road shows,...

■ Contact us for more information,

■ Sign up to the Gravograph newsletter.

GRAVOGRAPH

NOTES

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GRAVOGRAPH

Global reach

A global leader in the engraving and permanent marking industry, Gravograph'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.

GRAVOGRAPH