



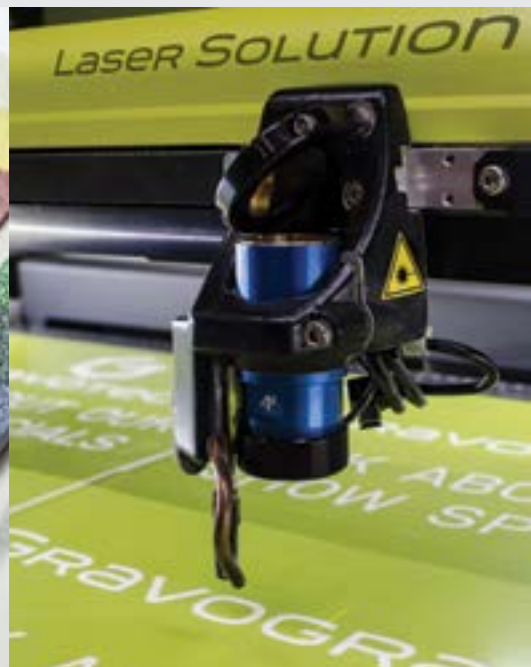
GRAVOGRAPH

PREMIUM
ENGRAVING
MATERIALS

Engraving source book

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

ver 4.1



plasticdressup.ca
800.387.3130
engraversdepot.ca



Canadian Distributor for Gravograph

The Gravograph total solution

A culture of excellence

Gravograph is a trademark of Gravotech Group, the world's leading manufacturer of marking solutions, offering a full range of equipment: rotary engraving machines, CO₂ and Fiber lasers, micro-percussion and scribing, engraving materials, consumables and services. For over 80 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 personalization, signage and traceability applications.
- A complete technology solution: machines, software, accessories and consumables.

- A complete technical support solution: readily available field and telephone technical support.
- A complete training solution: training on-site or on Gravograph premises, as well as phone support from engraving experts.

The comprehensive Gravograph product line includes:

- The world's largest and most innovative range of CNC machines.
- State of the art CO₂ and Fiber 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.

Gravotech develops and markets the world's highest quality and most durable marking 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 service.



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Our engraving materials: guarantee and commitment

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by

At Gravotech, quality is much more than a norm or a concept: it is a state of mind driven by continuous improvement.

This explains why most of our worldwide-known brands such as Gravoply™, Metallex™, Gravoglas™ 2-plex™ or Gravotac™, have become synonymous with quality and are a reference for competitors to match.

We are committed to respect these values raised over the past 60 years and do our utmost to meet your most demanding requirements.

To do so, we implemented a Gravograph Quality Charter, which covers a number of technical characteristics that we want respected for our products and ranges:

GRAVOGRAPH 



THE CHOICE IN EACH PRODUCT RANGE

Our wide material range included over 900 references in stock, specially developed for engraving and cutting. "Surface" or "Reverse" engraving, laser marking or cutter engraving, all our ranges of plastic, metal or stratified materials are available in a spectrum of colors, thicknesses between 0.09 mm and 10 mm or .004" and .40" according to the products, and various finishes (matte, glossy, satin, textured, metallic, brushed). The great majority of our materials is also compatible with digital printing. **For you, this is the guarantee to find the right product for your application.**

Thanks to our production units in the United States and in Europe, we are able to offer you custom-made solutions (color, finish, thickness, etc.), even for small quantities. Make sure you contact us!

OPERATING RECOMMENDATIONS AND USE CONDITIONS

Gravotech warrants that its product complies with its technical specification within normal condition of use, without any other warranty including without being limited to any other warranty of merchantability, performance or suitability.

Gravotech's warranty covers consumable products for a one (1) month period after the invoice date. The consumable warranty only covers manufacturing defects. Scratches and colorimetric variation are expressly excluded from the warranty coverage.

Technical specifications come from data and technical reports created by Gravotech, suppliers or external independent laboratory studies. Consequently each end user shall perform appropriate testing under real conditions of use to ensure consistency and adequacy of the product for its intended specific purpose and needs. Nonstandard conditions of use as well as harsh conditions such as UV, hygrometry, salinity or temperature specifics shall be taken into account to avoid any product deterioration.

End User shall be liable regarding their own testing results and therefore their final decision regarding suitability of the product according to Gravotech specifications and recommendation.

RAW MATERIALS

Our materials are issued from a selection of the best suppliers worldwide, capable of offering the highest guarantees in terms of organization (ISO*).

Our ABS and acrylics are not only pure, they are also selected among the best grades available. Each component is subject to a careful selection process taking into consideration normative and environmental obligations (RoHS**, REACH***).

This guarantees the respect of all obligations and requirements demanded by your customers. We will provide written statements on simple request.

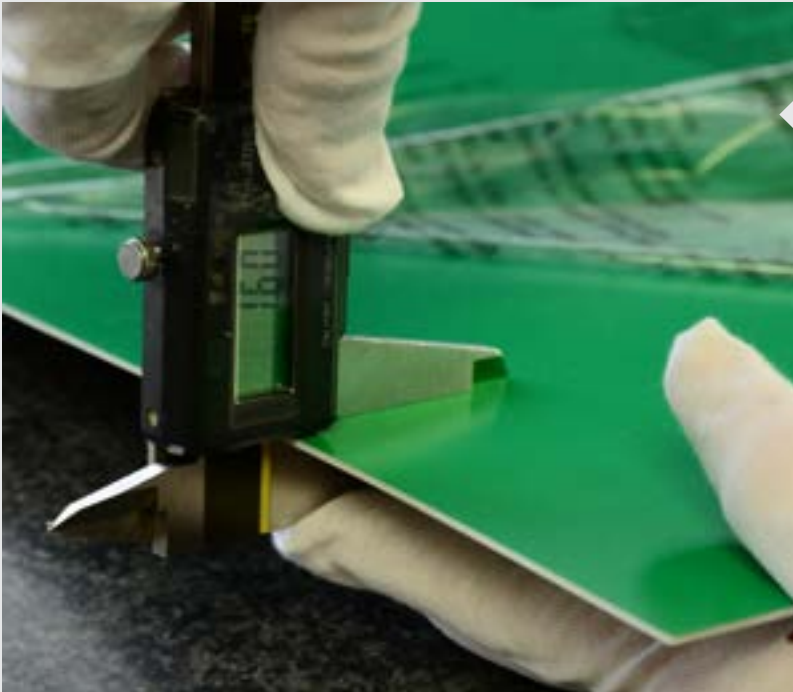


COLORS

Color rendering and consistency from one production batch to another are particularly sought after by all graphic arts professionals. UV resistance is an obligation for materials in contact with light, especially for outdoor applications. To enable you to commit in total safety, we set our expectations beyond market standards. Our components selection as well as sourcing decisions are made accordingly. Our operational teams make regular spectral colorimeter checks to measure color differences: we compare the light reflected on a random sample with our "Golden Sample". This measurement highlights color discrepancy (or " ΔE ") and opacity. **This guarantees flawless color and best hold of the material over time.**



05



SIZES, THICKNESS AND FLATNESS

Each material sheet is subject to tight squaring at 0.25 mm/metre (.01"/yd).

Our plastic material sizes are larger than the dimensions announced. **This guarantees that you benefit from the entire area purchased, even if the plate is clamped on the edges.**

The thickness of the layers that make up our materials is finely calibrated, and our recipes are perfectly mastered and executed by our engineers and technicians. For Gravoply™ 2, Metallex™, Gravoply™ Laser and Gravoply™ Ultra: the top coat is only a few microns thin. **This provides the possibility to achieve extremely fine and aesthetic engraving, minimise the production of chips or fumes and take advantage of your engraving machine's highest speed and productivity, be it mechanical or laser powered.**

Gravoply™ 1, Gravoglas™ 2-Plex™ and even Gravotac™: different layers calibrated at 250 microns are assembled by hot pressing in our workshops. Our products are not co-extruded, as this technique cannot guarantee regularity in thickness or material flatness. To obtain the best possible flatness, the "laminating" phase is made in very small batches, and even sometimes by the unit! **This ensures accurate and regular depth engraving, as well as quality milling jobs on the entire surface of the material sheet.**

PROTECTION, PACKAGING, TRACEABILITY

Our materials are protected individually by a "Gravograph"-personalized, resistant semi-adhesive film, ensuring that engraved or milled surfaces are preserved from pollution or alteration.

Each material sheet is also labeled with its reference, designation and production batch number. Because of this, our Quality Assurance system has the traceability information that is required in case defects are found. Our product packaging is adapted for transportation all over the world and has proven its sturdiness. **This guarantees that your purchase will maintain its "premium" quality when it arrives to your location.**



The particular care we take in terms of product traceability enables us to consider our customers and partners' feedback and therefore continue to improve, for the benefit of all.

This is what we call continuous improvement, the drive of our organization and spirit of our company.



* ISO: International Standard Organisation

** RoHS: Restriction of the use of certain Hazardous Substances

*** REACH: Registration, Evaluation and Authorisation of Chemicals substances

Promotion tools: Gravograph can help you!

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Gravograph offers a variety of Marketing Tools to help you select and promote our engraving materials.



CATALOG

Ref. 51659

E-CATALOG

WEBSITE

SWATCH BOOKS : CLASSIC VERSION

Ref. 71930

The necessary tool to choose precisely what you need from real material samples.

Including Plastics Laser/Rotary; Plastics Rotary; Metallics; in addition to the real material sample, it also presents the applications, benefits, specifications & capabilities

Flyers: pages of the Classic version available individually.

Plastics Laser/Rotary	
Gravoply™ Laser	71943
Gravoply™ Ultra p.1+2	71944
Gravoply™ 2	71945
Gravoglas™ 1	71946
Acrylic	71947
Gravotac™ Exterior	71948
Flexilase™	71949
Gravostrat™	71950
Rubbalase™	71951

Plastics Rotary	
Gravoply™ 1 p.1+2+3	71952
Gravofoil™ / Gravoply™ 3C	71953
Gravoglas™ 2Plex™ Surface p.1+2	71954
Gravoglas™ 2Plex™ Subsurface p.1+2	71955
Gravotac™	71956

Metallics	
Gravolase™ Metallics	71957
Metallex™	71958
Gravostrat™	71959
Gravoxal™	71960
Gravoxal™ Premium	71961
Gravoxal™ (US)	71965
Gravobras™ / Gravometal™	71962
Colored Aluminum / Trophy Brass / Colored Steel	71963
AlumaMark® / DuraBlack®	71964



SWATCH BOOKS : NOMAD VERSION

The necessary tool to choose precisely what you need from real material samples.

In plastic folders

- Plastics Laser/Rotary: Ref. 71932
- Plastics Rotary: Ref. 71931
- Metallics: Ref. 71933



CUSTOM FABRICATION SERVICES

Discover our custom fabrication capabilities from real engraved samples.

Ref. 68343

INDUSTRY SOLUTIONS

Discover our industry solutions from real engraved samples.

Ref. 74699



DISPLAY KIT

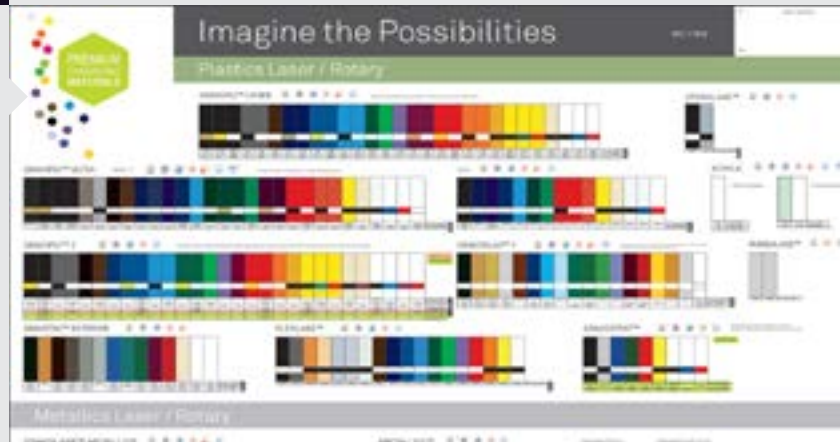
Set of displays presenting our entire range of engraving materials thanks to real samples. Can be wall-mounted or used as trestles in your shops or showrooms.

On request

POSTER

Wall poster with overview of our whole range of materials.

Ref. 71938



Custom fabrication services

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GRAVOGRAPH 

Save time and money by using our wide range of fabrication services which will meet your most demanding needs.

CUT-TO-SIZE

Custom fabricated shapes made to your specifications. Shape and size on demand (rectangle, circular, oval, strips, special shapes).



Signs with
concave corners



Circular blanks



Cutting



Oval blanks



FINISHING

Bevelling

Bevelling is the cutting of an attractive angular edge to create a border. Our standard bevel is at 45° angle.

Drilling holes

To accommodate your mounting needs in plastic and metal.

Holes are positioned according to your specifications. When measuring holes, follow the illustrated example below.



1. From the center of one hole to the center of the other hole.
2. From the center of the hole to the top edge of the material.
3. From the center 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).





Rounded / concave corners

We offer a wide selection of different radial for corners.



Bending

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

BACKING

Adhesive

We can apply adhesive backing for badges, nameplates, strips and sheets. Adhesive backing is applied before cutting material.

Magnetic

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



BADGES

We can custom fabricate your plastic or brass sheet badge. Specify: shape, size and material, fastener, fused, cemented or bonded hardware; rounded or square corners; bevel or no-bevel finished edges.

Hot-stamping / Silk-screen / Digital printing
To add a colored logo or inscription on badges, ID plates, etc.

Gravograph, part of Gravotech Group, is proud to announce our new partnership with Mimaki USA. This collaboration will bring digital printing and engraving together to create a print and cut solution. Expand your competitive edge and services by combining a Mimaki UV printer with Gravograph's engravers and consumable materials!

Quotation

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

Lead-time

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

Return policy

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

Custom materials on demand



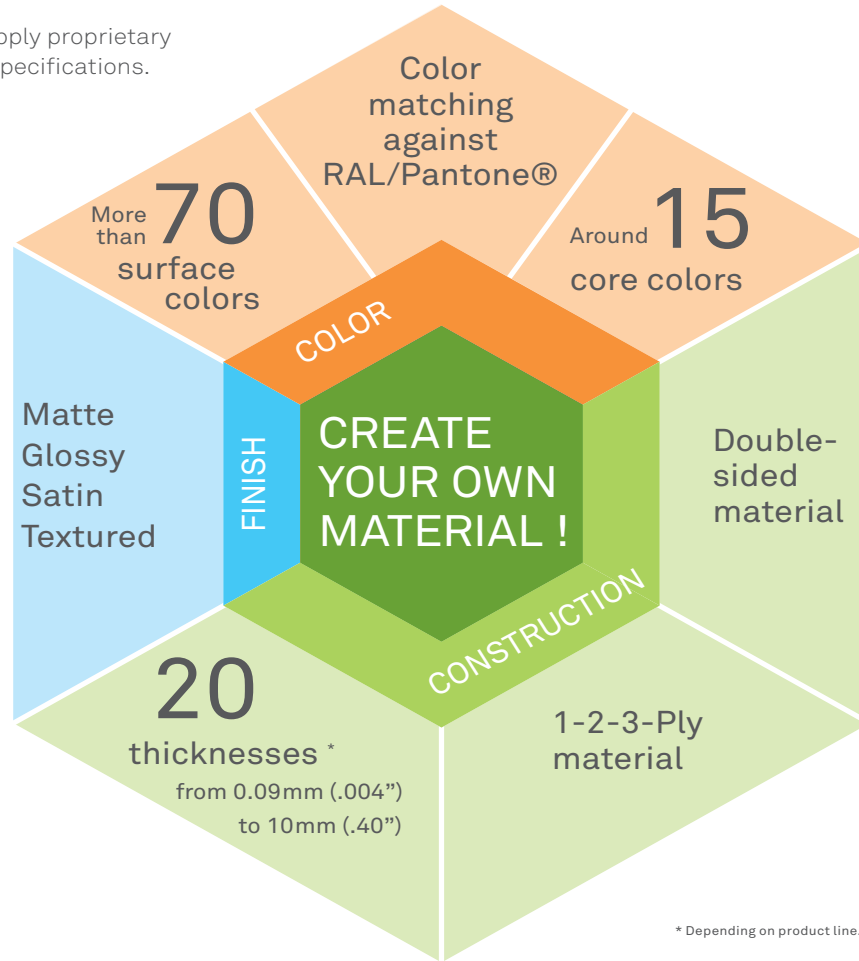
by



CANNOT FIND THE PLASTIC PRODUCT YOU ARE LOOKING FOR?

Gravograph is able to supply proprietary material based on your specifications.

CHOOSE:



COLOR MIXING

Gravograph provides any colors combination!

Choose engraving sheets in the color combination of your choice. Just mix any existing surface color with any existing core color for the following material ranges:

- Gravoply™ Laser
- Gravoply™ Ultra
- Gravoply™ 2
- Flexilase™
- Gravoply™ 1
- Gravoglas™ 2-Plex™
- Gravalase™ Metallics
- Metallex™



COLOR MATCHING

Do you require a specific surface color (to match your graphic charter, logo, etc.)?

Indicate a RAL, Pantone® or NCS® code and we will apply this color over the ABS or acrylic base of your choice.



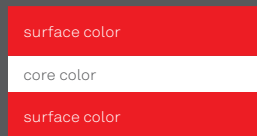
DOUBLE-SIDED MATERIAL

Looking for double-sided material?

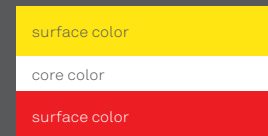
Contact us and we will produce your double-sided sheets in:

- Gravoply™ Laser
- Gravoply™ Ultra
- Gravoply™ 2
- Gravoply™ 1
- Gravoglas™ 2-Plex™
- Gravalase™ Metallics
- Metallex™

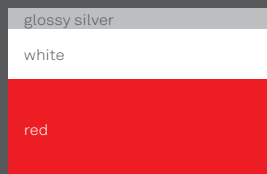
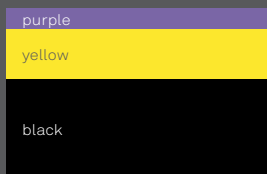
Same surface color on both sides



Different color on each side



Examples:



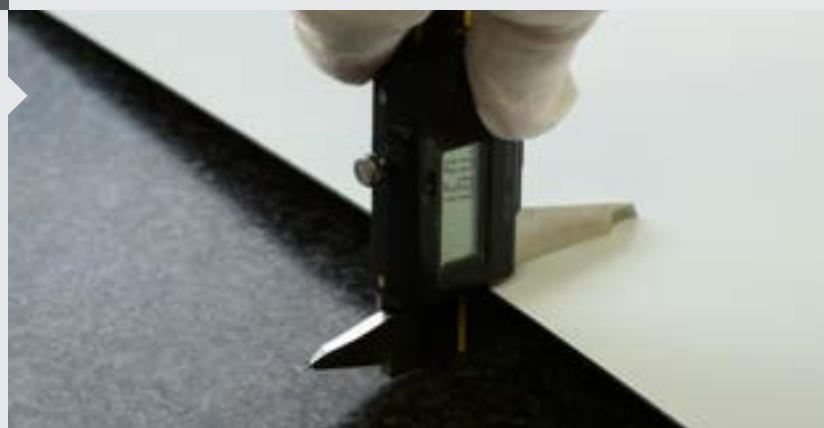
GRAVOPLY™ 3C

Our Gravoply™ 3C range offers the most used colors. However we can produce up to 1,500 color combinations on demand.

SPECIFIC THICKNESSES

Your application requires a specific material thickness?

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



SURFACE FINISH

Choose from our standard matte, glossy, satin or textured surface finishes; we can apply them to the majority of our plastic materials.

Examples:

- Gravoply™ Laser red/white (49988) has a matte finish but can be manufactured with a glossy finish on request.
- Gravoply™ Ultra blue/white (18990) has a matte finish: ask for it with a textured finish.



SPECIFIC CHARACTERISTICS

You are looking for a product to meet very specific characteristics, for a particular application and environment? Describe your requirement and we will find the best suited solution to your application.

Quotation

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

Lead-time

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

Return policy

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



Selection guide

Plastics
Laser / Rotary

		Gravoply™ Laser	Gravoply™ Ultra	Gravoply™ 2	Gravoglas™ 1	Acrylic	Gravotac™ Exterior	Flexilase™	Strickalase™	Gravostrat™	Rubbalase™	Gravoply™ 1		
Engraving system	CO ₂ laser	■	■	■	■	■	■	■	■	■	■			
	Fibre laser													
	Rotary	■	■	■	■	■	■	■	■	■		■		
	UV Print	■	■	■	■	■	■	■	■	■		■		
Applications	Funeral plates: urns plates - Coffin plates - Head stones ...			■	■			■	■			■		
	ADA / DDA / Signs with Braille dots						■							
	Small labels: Badges - Door plates - Trophy plates - Luggage tags ...	■	■	■				■	■			■		
	Small signs: Badges - Door plates - Sport tags - Awards - Museum art tags ...	■	■	■		■		■	■			■		
	Safety signs - Technical signs	■	■	■						■		■		
	Large Signs - Flow charts - Directories - Location maps - Directions - Professional plates	■	■	■	■	■	■	■					■	
	Signs - Letter cut-outs (signage / routing / prototyping) - POP displays - Acrylic work				■	■	■	■						
	Signs - Metal Cut-outs (signage / routing / prototyping)													
	Rating plates (mass production) - Industrial ID plates								■					
	Electrical plates - Push-button, cable tags	■	■	■									■	
	Front panels / Flow charts	■	■	■	■						■		■	
	Rubber stamps											■		
	Specifications	Surface finishing	Matte	■	■	■		■	■	■	■	■		
Brushed									■					
Glossy						■	■		■		■			
Satin				■									■	
Textured														
Composition		Acrylic	■	■		■	■	■	■	■				
		ABS			■								■	
		Aluminium												
		Brass												
		PVC												
		Phenolic									■			
Rubber										■				
Capabilities	Surface engraving	■	■	■		■	■	■	■	■	■	■		
	Subsurface engraving		■		■	■	■							
	CO ₂ laser cutting	■	■		■	■	■	■	■		■			
	Interior	■	■	■	■	■	■	■	■	■	■	■		
	Exterior	■	■		■	■	■							
	Shear	■	■	■	■		■	■	■			■		
	Saw	■	■	■	■	■	■			■		■		
	Silk-screen	■	■	■	■	■	■	■	■	■		■		
	Hot-stamp	■	■	■	■	■	■					■		
	Heat bending	■	■	■	■	■	■					■		
	Scratch resistant	■	■	■	■		■	■		■		■		
	Flexible	■	■	■				■	■		■	■		
	Break resistant			■		■					■	■		
	UV resistant	■	■		■	■	■	■	■	■				
	Min. temperature	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-60°C (-76°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	
Max. temperature	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	200°C (392°F)	180°C (356°F)	80°C (176°F)	80°C (176°F)		
Page	>	16	18	20	21	22	23	24	25	26	27	28		

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



CO₂ Laserable

Generally applies to acrylic core materials as well as rubber, which can be CO₂ laser engraved and cut. Also suitable for coated or anodized metals. ABS materials can also be CO₂ lasered, although cutting results and lasering quality may vary according to materials and/or colors. Apart from a few exceptions, most CO₂ laserable materials are also rotary engravable.



Fiber Laserable

Generally applies to metals, either bare or coated. A wide variety of plastics can also be fiber lasered.



Rotary engravable (with a rotating cutting tool)

The most versatile engraving technology. Suitable for most plastic materials and metals.



UV Print

UV LED printing material.



Indoor use

Material designed for indoor use which does not require resistance to UV light or changes in the climate.



Outdoor use

Within the limit of technical specifications provided by Gravotech and compliance to standard conditions of use, materials are designed to be resistant to climate and UV variation without significant alteration to its features. Due to wide variety of use conditions, Gravotech cannot assert material shelf-life.



Surface engraving

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



Subsurface engraving (also known as reverse engraving)

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

No clamping, no tape, no vacuum table

A real **time saver** for your engraving and cutting jobs.

- All kinds of plastic or metallic materials in variable thickness **secured effortlessly**
- Also suitable to hold small items: medals, tags, labels, etc.
- Ideal for **engraving** and **cutting** depending on materials
- **No oily residues** after use

The indispensable fixing accessory for your daily jobs

Flexible material placed on your engraving / marking table* to maintain the material to be engraved or cut into place.

* For IM4, M20, IS200 & M40 use a support table, see below for more informations.

Easy to use



1. Place Gravogrip™ on your table

2. Position the material and press down

3. Engrave!

Gravogrip™ sizes

Choose the size that will best suit your machine's working area.

78056	Full sheet 1220 x 610 mm (48" x 24")
67252	610 x 610 mm (24" x 24")
71052	610 x 305 mm (24" x 12")
32262	305 x 305 mm (12" x 12")
45696	310 x 215 mm (12".20 x 8.46")
71053	305 x 200 mm (12" x 7.87")
71054	225 x 80 mm (8.85" x 3.15")
70996	120 x 100 mm (4.72" x 3.93")
72027	120 x 80 mm (4.72" x 3.15")
71056	cut-to-size on request

For smaller size machines, **use one of the support tables*** specially designed to that effect.

	Gravogrip™ support table*	Delivered with replacement mat
72024	for IM4 machines	ref. 72027 (120 x 80 mm) (4.72" x 3.15")
70997	for M20/M20XL machines	ref. 70996 (120 x 100 mm) (4.72" x 3.93")
71116	for IS200 machines	ref. 71054 (225 x 80 mm) (8.85" x 3.15")
45697	for M40 machines	ref. 45696 (310 x 215 mm) (12.20" x 8.46")

* All support tables delivered with one piece of Gravogrip™ to fit.

See also p.116 *Jigs & Holding Devices*.

Minimum maintenance

- Cleaning with soapy water



BENEFITS

- UV stable
- Excellent for interior and exterior signage
- A wide range of colors
- Matte finish
- Microthin surface layer for detailed engraving
- Reduce inventory with one material for rotary, laser, indoor and outdoor needs

APPLICATIONS

Architectural signage, industrial signage, labelling, legend plates...

SPECIFICATIONS

Finish	Matte
Composition	Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

The most versatile plastic material: indoor, outdoor, laser and rotary engraving and cutting. One product, one stock, many applications.

You can mix any surface and any core colors on demand.

For custom colors, see Custom materials on demand p.10.



Flexibility and performance for indoor and outdoor applications

Double-sided		2-ply		
Matte				
surface / core color		0.5 mm (.020")	0.8 mm (1/32")	1.3 mm (.050")
white / red		51047	51006	70005
white / blue		51057	51011	80763
white / black		51017	49971	69991
almond / black		51022	49978	80764
yellow / red		51048	51007	70006
yellow / blue		51058	51012	80765
yellow / black		51018	49973	69992
dark yellow / black		51019	49977	80766
orange / white		51035	51005	80767
orange / black		51020	51001	80768
red / white		51034	49988	69995
red / black				81585**
red / yellow		51055	51009	80769
red / gold		72304**		

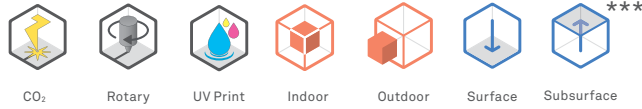
		2-ply		
surface / core color		0.8 mm (1/32")	1.3 mm (.050")	1.6 mm (1/16")
burgundy / white		51043	49997	70004
burgundy / gold		51062	51016	80770
purple / white		67005*	67006*	80771*

*Subject to premature colorfading
** Sold in North America Only



Printed colors for indication only. Cannot serve as a substitute for real material sample. The dimensions indicated represent our minimal commitment.





Flexibility and performance for indoor and outdoor applications

Matte

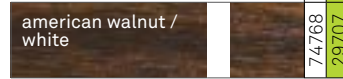
surface / core color	2-ply	
	0.5 mm (.020")	0.8 mm (1/32")
apple green / white	51042	49996
pine green / white	51039	70002
sky blue / white	51037	69997
sky blue / black	51021	69993
blue / white	51036	69996
blue / yellow	51056	80772
blue / gold	72305**	
air force blue / white	51038	69998
air force blue / gold	51061	80773
brown / white	51044	70000
grey / white	51046*	69999*
grey / black	51028*	80774*
black / white	51033	69994
black / white / red	51008	80775
black / yellow	51049	80775
black / gold	51060	80776

*Subject to premature colorfading
** Sold in North America Only

Double-sided

Woodgrains**

surface / core color



** Sold in North America Only

NEW Reverse**

surface / backing color

surface / backing color	2-ply	
	1.6 mm (1/16")	3.2 mm (1/8")
clear / clear	82369	
clear / white	82170	
clear / red	82171	
clear / blue	82172	
clear / silver	82173	
clear / gold	82174	
clear / black	82175	

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
Printed colors for indication only. Cannot serve as a substitute for real material sample.
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BENEFITS

- UV stable
- Excellent for interior and exterior signage
- A wide range of colors
- Matte finish
- Microthin surface layer for detailed engraving
- Reduce inventory with one material for rotary, laser, indoor and outdoor needs

APPLICATIONS

Architectural signage, industrial signage, labelling, legend plates...

SPECIFICATIONS

Finish	Matte
Composition	Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

The most versatile plastic material: indoor, outdoor, laser and rotary engraving and cutting. One product, one stock, many applications.

You can mix any surface and any core colors on demand.

For custom colors, see Custom materials on demand p.10.



BENEFITS

- Laser engraving and cutting
- Excellent for interior and exterior signage
- Unique 0.05mm (.002") cap layer for detailed engraving
- Excellent for photo lasering
- Thickness 0.25 mm (.01") with backing adhesive on demand.

APPLICATIONS

Badges, awards plates, interior and exterior signage

SPECIFICATIONS

Finish	Matte
Composition	DR Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Laser and rotary engraving, a versatile material for indoor and outdoor applications. For custom colors, see Custom materials on demand p.10.



Matte **

surface /
core color

		2-ply		2-ply	
		0.5 mm (.020")	1.6 mm (1/16")	0.5 mm (.020")	1.6 mm (1/16")
clear / white		18965*	19009*		
white / red			18997		
white / azure blue			18996		
white / black		18946	18984		77757
almond / black			29500		
yellow / black		18955	18993		77754
orange / white			19000		
orange / black			29499		
fuchsia / black			74600***		
red / white		18949	18987		77759
red / black			29498		
burgundy / white			18980		
burgundy / gold			18999		
apple green / white		18970	19012		77756
forest green / white			19001		
forest green / gold			18998		
pine green / white					29491
sky blue / white				70955	70953 / 77755
blue / white				18952	18990
air force blue / white					29492
navy blue / white					29494
royal blue / white					19015
brown / white					29495
chocolate brown / white					29493
light grey / black					29496
taupe / white					29501
clear / black				18962*	19006*
black / white				18943	18981 / 77758
black / gold				18976	19004
glossy black / gold				18973**	
glossy black / silver				75716***	
ultra glow / white				49884***	

* Suitable for subsurface engraving.
** Except 18973 glossy finish.
*** Sold in North America Only



Printed colors for indication only. Cannot serve as a substitute for real material sample. The dimensions indicated represent our minimal commitment.





Satin

surface / core color	2-ply	1.6 mm (1/16")	2.4 mm (3/32")
white / red	29514		
white / azure blue	29518		
white / black	29507		
almond / black	29531		
yellow / black	29511		
orange / white	29521		
red / white	29512		
red / black	29529		
apple green / white	29513		
forest green / white	29515		
sky blue / white	70954		
blue / white	29510	47321	
air force blue / white	29522	29688	
royal blue / white	29519		
black / white	29508	29687	

Textured*

surface / core color	2-ply	1.6 mm (1/16")
white / black	76069	
yellow / black	76073	
red / white	76071	
forest green / white	76075	
royal blue / white	76072	
brown / white	76074	
black / white	76079	

* Sold in North America Only

BENEFITS

- Laser engraving and cutting
- Excellent for interior and exterior signage
- Unique 0.05mm (.002") cap layer for detailed engraving
- Excellent for photo laser cutting
- Thickness 0.25 mm (.01") with backing adhesive on demand.

APPLICATIONS

Badges, awards plates, interior and exterior signage

SPECIFICATIONS

Finish	Satin, textured
Composition	DR Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

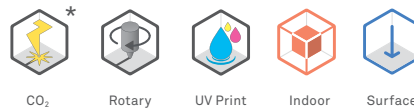
Laser and rotary engraving, a versatile material for indoor and outdoor applications. For custom colors, see Custom materials on demand p.10.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
Printed colors for indication only. Cannot serve as a substitute for real material sample.
The dimensions indicated represent our minimal commitment.



BENEFITS

- Microthin surface layer
- Perfect for small characters and detailed logos
- Gravoply™ 2 Gloss has an extra durable, scratch resistant, glossy cap



APPLICATIONS

Badges, identification plates, interior signage

SPECIFICATIONS

Finish	Matte
Composition	ABS
Engraving depth	0.1 mm (.004")
Full sheet	1 220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

You can mix any surface and core colors on demand. Double-sided products are also available.

For custom colors, see Custom materials on demand p. 10.

Gloss	2-ply				
	0.5 mm (.020")	0.8 mm (1/32")	1.5 mm (1/16")	2.4 mm (3/32")	1.5 mm (1/16")
Double-sided					3.2 mm (1/8")
surface / core color					
white / red	21857	21928	23981		
white / burgundy	21874				
white / azure blue	21841	21908	21973		
white / black	53218	21850	21919	21982	23977
almond / burgundy		29709			22010
almond / black	21855	21926			
yellow / red	21845	21913			
yellow / azure blue	21828	21896			78601**
yellow / black	21863	21936	21995	23982	
dark yellow / black		21925			
orange / white		52205			
red / white	53219	21851	21921	21983	23978
red / yellow		21910			22011
burgundy / white		21932			22016
purple / white	67007				

		2-ply				
		0.5 mm (.020")	0.8 mm (1/32")	1.5 mm (1/16")	2.4 mm (3/32")	1.5 mm (1/16")
apple green / white		21838	21905	23983	31830**	78223**
pine green / white		21865	21938	21997		
pine green / yellow		21916				
sky blue / white		21861	21934			
sky blue / black		21827	21895			
blue / white		53220	21852	21923	21984	23979
blue / yellow			21911			22012
air force blue / white			21907			31405**
brown / white		21858	21930			
chocolate brown / white			21876			
grey / white		21856	21927		23980	
grey / black			21915			
black / white		53217	21849	21917	21981	23976
black / yellow		21866	21940			22009
light walnut / white		21885				29732

* Gravoply™ 2 products have a laserable foil cap but engraving color results can vary according to the reference. Vector cutting is not recommended.

** Sold in North America Only



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surface / backing color	1.5 mm (1/16") 3.0 mm (1/8") 5.0 mm (.20")	2-ply
clear / white	18141* 18193 18264	
clear / light grey	18177*	
clear / yellow	18217	
clear / red	18201 18267	
clear / burgundy	18232 18287	
clear / purple	18132*	
clear / moss green	18136*	
clear / garden green	18229 18285	
clear / green	18282	
clear / light blue	18179*	
clear / sky blue	18214 18273	
clear / blue	18207 18270	
clear / brown	18134*	
clear / silver	18171 18244 18293	
clear / gold	18168 18235 18290	

clear / old gold	18174 18252 18296	
clear / black	18138* 18183 18261	

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

BENEFITS

- Laser engraving and cutting
- Excellent UV resistance
- A fine silk-screened layer
- Resistant to chemical agents
- Subsurface engraving: produce multi-color signage with paint fill
- Easy to keep surface clean
- Interior and exterior use

APPLICATIONS

Interior and exterior signage,
professional name plates

SPECIFICATIONS

Finish	Glossy
Composition	Acrylic
Engraving depth	0.2 mm (.008")
Full sheet	1 220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Excellent material for both rotary and laser engraving.

You can use Gravograph recommended paint to color any Gravoglas™ 1 subsurface engraving. See p.67.

For custom colors, see Custom materials on demand p.10.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
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GRAVOGRAPH

Docteur Odile TERRASSON
MEDECINE GENERALE
CONVENTIONNEE



BENEFITS

- Laser engraving and cutting
- Glossy or frosted finish
- Excellent for clear signage
- Laser and rotary engravable
- Interior and exterior use



APPLICATIONS

Interior and exterior signage applications

SPECIFICATIONS

Finish	Glossy
Composition	Acrylic
Engraving depth	0.25 mm (0.010")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	0.5 mm (0.020")
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (180°F)

TECH TIPS

Acrylic sheets can be engraved, paint filled, or used for cutouts. Another common use is to simply add thickness to an engraved sheet of metal or plastic. The added thickness has a strong presence on the wall - especially helpful if the sign is not framed.

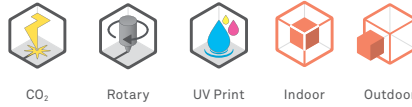
white	58820	3.2 mm (.125")
	58821	6.4 mm (.250")
opaque black	34096	
	34098	
clear	33971	
	33972	

Sold in North America Only



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NEW

Matte

	1-ply	1-ply	1-ply
	0.8 mm (1/32") 1.6 mm (1/16") 3.2 mm (1/8")	0.8 mm (1/32") 1.6 mm (1/16") 3.2 mm (1/8")	0.8 mm (1/32") 1.6 mm (1/16") 3.2 mm (1/8")
clear	29918 29935 72083	29982	81359
extra white	29919 29936 31237	81363	81310
bright white*	78232	81311	81372
eggshell*	81351	81352	29928 29945 31406
newyork white*	81362	29926 29943 31648	81371
almond	29921 29938 32295	81365	81282
ivory*	81313	81374	81354 78948
cream*	81355	81373	81361
candlewick*	81358	29923 29940 31738	29920 29937 31257
silver	29931	29922 29939 31700	81312
silver grey	29929 29946 32187	29922 29939 31700	81364
metallic blue*	81368	81281	81364
metallic grey*	81370	81360	81369
taupe*	81353	81369	81389
slate	29930 29947 32277	29927 29944 31837	29927 29944 31837
gold			
copper*			
cocoa*			
brown*			
chocolate brown			
rust*			
pink*			
bordeaux*			
burgundy			
red			
yellow*			
burnt orange*			
orange*			
pine green			
teal			
green*			
apple green*			
maui blue*			
azure blue			
patriot blue*			
navy blue*			
purple*			
royal blue*			
black			
air force blue*			
light grey*			
clear*	75466 75459	0.8 mm (1/32") 1.6 mm (1/16") 3.2 mm (1/8")	0.8 mm (1/32") 1.6 mm (1/16") 3.2 mm (1/8")

Glossy/Matte

* Sold in North America Only

Available in other thicknesses. Please contact us.

The Gravotac™ process :



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

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
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BENEFITS

- Interior and exterior use
- Profile available with or without adhesive backing
- Cut with laser or rotary machines

APPLICATIONS

DDA & ADA compliant, tactile signage

SPECIFICATIONS

Finish	Matte or Glossy
Composition	Impact modified acrylic
Engraving depth	-
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

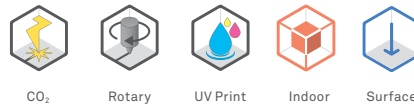
TECH TIPS

The ideal product for Braille and tactile signs cut with your laser machine. UV stable.
For custom thickness, please contact us.



BENEFITS

- Laser engraving and cutting
- Very thin and flexible
- Excellent for labels
- Fine engraving, neat cutting
- Delivered with adhesive backing



APPLICATIONS

Identification labels, trophy plates, labels for curved surface

SPECIFICATIONS

Finish	Matte, Brushed, Glossy
Composition	Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	610 mm x 305 mm (24" x 12")
Half sheet	-
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	-
Silk screen	-
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

A high resolution material, flexible and laserable.

Metallic colors for your trophy plates.

Delivered with adhesive backing.

For custom colors, see Custom materials on demand p.10.

surface / core color	2-ply
white / black	66984 0.25 mm (.01")
yellow / black	66985
orange / black	66986
red / white	66997
purple / white	67002
apple green / white	67001
pine green / white	71673
sky blue / white	67000
blue / white	71670
air force blue / white	71671
brown / white	67004
brushed aluminum / black	66991
glossy silver / black	66990
matte aluminum / black	67558
copper / black	82315
european gold / black	66989

2-ply
glossy gold / black
grey / white
black / white



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		2-ply
		0.09 mm (.004")
surface / core color		
silver / black	19872	
black / white	19871	



- ### BENEFITS
- Laser engraving and cutting
 - Available in black/white or silver/black
 - 10 meter (32') roll
 - Very thin
 - Delivered with adhesive backing
 - Design special shapes with your CO₂ laser

APPLICATIONS

Labels, barcodes, trophy plates

SPECIFICATIONS

Finish	Matte
Composition	Acrylic
Engraving depth	0.025 mm (.001")
Full sheet	120 mm x 10m (4.75" x 32')
Half sheet	-
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	-
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-60°C (-76°F)
Max. temp.	200°C (392°F)

TECH TIPS

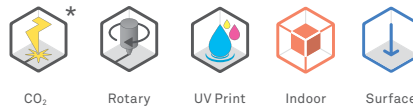
Delivered in roll, with adhesive backing. Very good material for small labels on curved surface. For a larger choice of colors, see Flexilase™ p.24.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
 Printed colors for indication only. Cannot serve as a substitute for real material sample.
 The dimensions indicated represent our minimal commitment.



BENEFITS

- Phenolic material
- Low glare
- Resistant to chemicals and solvents
- Non-flammable
- Conforms to military specifications ASTM D 709 ES-1, ES-2, ES-3
- Electrically non-conductive



APPLICATIONS

Industrial identification

SPECIFICATIONS

Finish	Low glare
Composition	Rigid thermoset material
Engraving depth	0.3 mm (.012")
Full sheet	914 mm x 990.6 mm (36" x 39")
Half sheet	457 mm x 990.6 mm (18" x 39")
Quarter sheet	457 mm x 495.3 mm (18" x 19.5")
Other size	914 mm x 610 mm (36" x 24")

CAPABILITIES

Interior	■
Exterior	-
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	180°C (365°F)

TECH TIPS

Thanks to its specific characteristics, this material is the ideal choice for all your industrial identification needs.

Gravostrat™ can be laser engraved but not laser cut.

Double-sided

surface /
core color

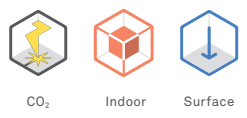
white / black	80194	80195	1.6 mm (1/16")	3.2 mm (1/8")
yellow / black	80191	80196		
red / white	80193	80198		
black / white	80192	80197		

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



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natural rubbalase	19897	2.2 mm (.087")
odorless rubbalase	48542	

BENEFITS

- Natural rubber sold in sheets, exclusively for lasering with CO₂ laser engraving machines to create inking stamps
- Grey in color, 2.2 mm (.087") in thickness

APPLICATIONS

Rubber stamps

SPECIFICATIONS

Finish	Grey
Composition	Rubber
Engraving depth	-
Full sheet	297 x 210 mm (A4) (11.7" x 8.3")
Half sheet	-
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	-
Saw	-
Silk screen	-
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (40°F)
Max. temp.	80°C (176°F)



TECH TIPS

The hardness of elastomers is measured on the scale "Shore A"; Rubbalase™ is measured at 60 "Shore A".

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
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The dimensions indicated represent our minimal commitment.



BENEFITS

- Satin finish (except Matte Decor)
- 2-ply or double-sided
- Many colors and thicknesses
- Scratch resistant



APPLICATIONS

Interior signage, identification plates, key tags

SPECIFICATIONS

Finish	Satin
Composition	XT/ABS
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

The acrylic surface of this product and its smooth satin finish makes this very popular product scratch resistant.

For custom colors, see Custom materials on demand p.10.

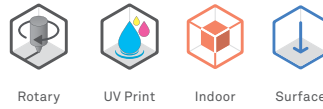
Double-sided	surface / core color	2-ply		2-ply	2-ply
		0.8 mm (1/32")	1.6 mm (1/16")		
white / red		17385	17484	29699	red / white
white / green		17313			red / black
white / pine green		29561			red / yellow
white / blue		17284	17396	17489	burgundy / white
white / black		17263	17331	22030	burgundy / silver grey
bright white / black		78354*	29578	29700	purple / white
polar white / black		78461*			teal / white
ivory / chocolate brown		17310	17465*		apple green / white
almond / silver grey		17425			green / white
almond / black		32293			pine green / white
yellow / blue		17373			maui blue / white
yellow / black		17273	17366	17478	metallic blue / white
yellow / white		29564	29579	17525	azure blue / yellow
yellow / magenta		29565			azure blue / white
orange / white		17407			air force blue / white
orange / black		17404			navy blue / silver grey
burnt orange / black		29560	29566		
pink / white		30384*			

* Sold in North America Only



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Double-sided		2-ply	
surface / core color		0.8 mm (1/32")	1.6 mm (1/16")
navy blue / white		29581	29706
rust / white		17448	
cocoa / white		17419	
cocoa / chocolate brown		17413	
brown / white		17388	
chocolate brown / white		31641	29704
light grey / black		29583	
silver grey / white		29584	
silver grey / black		17276 17379 17481	
silver grey / burgundy		29587*	
metallic grey / white		17376	
black / white		17250 17319 17467	29604 17521
black / red		29601	
black / yellow		17399	
black / silver grey		29572	

Design Matte decor

		2-ply
		1.6 mm (1/16")
new york white / slate		29614
candlewick / slate		29616
candlewick / green		32743
slate / new york white		29617

Design Translucent

		2-ply
		1.6 mm (1/16")
red / translucent white		17301
black / translucent white		17295

Woodgrains*

surface / core color		2-ply
		1.6 mm (1/16")
glossy walnut / white		29600
light walnut / white		29598
american walnut / white		29599

* Sold in North America Only

BENEFITS

- Satin finish (except Matte Decor)
- 2-ply or double-sided
- Many colors and thicknesses
- Scratch resistant

APPLICATIONS

Interior signage, identification plates, key tags

SPECIFICATIONS

Finish	Matte, Satin
Composition	XT/ABS
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

The acrylic surface of this product and its smooth satin finish makes this very popular product scratch resistant.

For custom colors, see Custom materials on demand p.10.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com

Printed colors for indication only. Cannot serve as a substitute for real material sample. The dimensions indicated represent our minimal commitment.

GRAVOGRAPH



BENEFITS

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



APPLICATIONS

Signage, plates with logos, badges

SPECIFICATIONS

Finish	Matte
Composition	ABS
Engraving depth	0.1 mm(.004") - 0.3 mm (.012")
Full sheet	1220 mm x 600 mm (48" x 24")
Half sheet	603 mm x 603 mm (23.75" x 23.75")
Quarter sheet	603 mm x 298 mm (23.75" x 11.75")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Unique on the engraving market, it is the only 3-color material that does not require coloring.

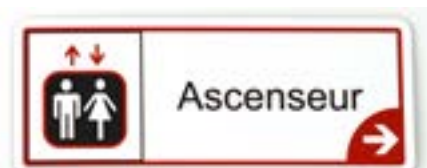
Other color combinations available on demand. Contact us for more information.

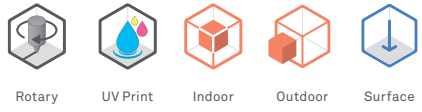
For custom colors, see Custom materials on demand p.10.

		3-ply		1.6 mm (1/16")
surface / core color / core color				
white / red / black				23957
yellow / white / black				23949
yellow / red / black				23954
red / white / black				23955
apple green / white / black				23953
blue / white / black				23956
blue / red / white				23952
brushed aluminum / black / white				23951
radiant gold / black / white				23950
black / red / white				23948



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surface / core color	2-ply	0.2 mm (.008")
white / black	18448	18448
yellow / black	18456	18456
orange / black	18462	18462
red / white	18450	18450
purple / white	18469	18469
green / white	18460	18460
blue / white	18452	18452
brown / white	18458	18458
silver / black	21811	18464
gold / black	18464	18467
copper / black	18467	18454
grey / white	18454	18446
black / white	18446	

- ### BENEFITS
- Very flexible
 - Interior and exterior
 - Excellent resistance to acids and solvents
 - Comes with adhesive backing
 - Colors for the identification of pipes in the industrial sector

APPLICATIONS

Industrial signage, permanent labels

SPECIFICATIONS

Finish	Matte
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 (18" x 12,5")
Quarter sheet	-
Other size	-

CAPABILITIES

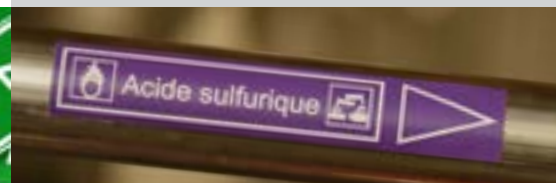
Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	■
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Unique on the market, colors for identification of pipes in the industrial sector.

For CO₂ laser engraving, we suggest the use of Flexilase™ p.24.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
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BENEFITS

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



APPLICATIONS

Indoor and outdoor signage, professional plates, directories

SPECIFICATIONS

Finish	Matte
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Large choice of colors and finishes, plus many other combinations available on request.

The textured finish makes the product surface stronger and scratch resistant. Ideal for industrial applications.

For custom colors, see Custom materials on demand p.10.

Surface engraving
Matte

surface / core color	2-ply	
	1.6 mm (1/16")	3.2 mm (1/8")
white / red	29627	29912
white / blue	29628	29912
white / black	17875 29904	29912
polar white / black	78462*	
almond / black	34403*	
yellow / black	17881	
orange / black	29633	
orange / white	47230	
red / white	17877 29905	
burgundy / white	17883	
teal / white	29637	
apple green / white	17885 29906	
green / eggshell	29639	
metallic blue / white	29641	
azure blue / white	17879 29907	
chocolate brown / white	29636	

surface / core color	2-ply	
	1.6 mm (1/16")	3.2 mm (1/8")
silver grey / black	17887 29908	
gold / black	29642 29910	
black / white	17873 29911	29913
black / gold	29643	
clear / cocoa	29660	

* Sold in North America Only



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Surface engraving

Glossy

surface / core color	2-ply
clear / clear	1.6 mm (1/16") 3.2 mm (1/8") 75459*
white / red	17907 18063
white / blue	17904
white / black	17892 18051 29914*
yellow / black	17901 18060
red / white	17895 18054
burgundy / white	17913 18069
apple green / white	17910 18066
pine green / white	17918 18072
azure blue / white	17898 18057
royal blue / white	29647
brown / white	29644
chocolate brown / white	29645 29650
silver grey / black	17930 18078
gold / black	17927 18075
copper / black	17924
black / white	17889 18048
black / gold	17933 18080

Textured

surface / core color	2-ply
white / black	18304
white / red	18325
white / pine green	18337
almond / black	34404
yellow / black	18334
red / white	18307
apple green / white	29654
pine green / white	18343
azure blue / white	18310
american blue / white	18313
brown / white	18328
silver grey / black	18322
black / white	18301 29917

* Sold in North America Only

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BENEFITS

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

APPLICATIONS

Indoor and outdoor signage, professional plates, directories

SPECIFICATIONS

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

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Large choice of colors and finishes, plus many other combinations available on request.

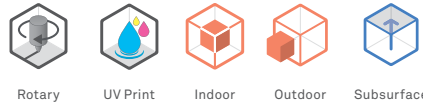
The textured finish makes the product surface stronger and scratch resistant. Ideal for industrial applications.

For custom colors, see Custom materials on demand p.10.



BENEFITS

- For indoor and outdoor use
- UV stable
- Subsurface engraving



APPLICATIONS

Indoor and outdoor signage, professional plates, directories

SPECIFICATIONS

Finish	Matte
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

UV stability for outdoor signage.

You can use Gravograph recommended paint to color any Gravoglas™ 2-Plex™ subsurface engraving. See p.67.

For custom colors, see Custom materials on demand p.10.

Subsurface engraving Matte

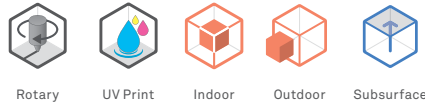
surface / backing color	2-ply		surface / backing color	2-ply	
	1.6 mm (1/16")	3.2 mm (1/8")		1.6 mm (1/16")	3.2 mm (1/8")
clear / clear	17941	18082	clear / cocoa	29660	
clear / white	17947	18086	clear / taupe	29661	
clear / eggshell	33982		clear / chocolate brown	17970	34363
clear / almond	17958	33977	clear / silver grey	17961	34406
clear / cream	29658		clear / slate	29667	
clear / yellow	17956		clear / silver	29669	
clear / red	17950	18088	clear / gold	29670	
clear / bordeaux	29659		clear / black	17944	18084
clear / burgundy	17976	18090*			
clear / apple green	17973				
clear / green	29662	34381			
clear / azure blue	17953	33962			
clear / american blue	29663				
clear / royal blue	29665				
clear / metallic blue	29666				

* Sold in North America Only



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Subsurface engraving
Glossy

surface / backing color	2-ply	
	1.6 mm (1/16")	4.8 mm (.20")
clear / clear	29655	29657
clear / white	17988	18021
white / black	18021	18101
clear / almond	18015	
clear / yellow	18003	18036
clear / red	17997	18030
clear / air force blue	17938	18018
clear / azure blue	18000	18033
clear / silver grey	29656	
clear / silver	17985	18093
clear / copper	17979	
clear / gold	17982	18091
clear / black	17991	18024
	18104	

BENEFITS

- For indoor and outdoor use
- UV stable
- Subsurface engraving

APPLICATIONS

Indoor and outdoor signage, professional plates, directories

SPECIFICATIONS

Finish	Glossy
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

UV stability for outdoor signage. You can use Gravograph recommended paint to color any Gravoglas™ 2-Plex™ subsurface engraving. See p.67.

For custom colors, see Custom materials on demand p.10.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
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BENEFITS

- Interior use
- Profile available with or without adhesive backing

APPLICATIONS

DDA & ADA compliant, tactile signage

SPECIFICATIONS

Finish	Matte
Composition	ABS
Engraving depth	-
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Matte finish and wide range of colors ideal for your Braille and tactile signs and pictograms. Americans with Disabilities Act (ADA) compliant. For better visibility, choose contrasted colors.



Rotary

UV Print

Indoor

	1-ply		
	0.8 mm (1/32")	1.6 mm (1/16")	3.2 mm (1/8")
clear	32729		
bright white	37042	29879	31260
white	37033	29880	31236
almond	37070	29882	32294
yellow	24998	29883	
rust	32291	29884	32292
red	25001	29885	31699
burgundy	69711	29888	
tan	32726	29889	32727
taupe	37047	29890	31261
brown	31631	29891	
chocolate brown	37058	29892	
pine green	37060	29895	
metallic blue	37032	29896	31392
azure blue	37048	29897	

	1-ply		
	0.8 mm (1/32")	1.6 mm (1/16")	3.2 mm (1/8")
navy blue	69712	29898	31360
candlewick	37050	29899	31410
silver grey	69713	29900	32185
slate	37065	29901	32276
black	37037	29902	31256

The Gravotac™ process :



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



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Vinyl*

surface color		0.08 mm (.132")
white	36714	36714
yellow	36721	36721
orange	36729	36729
red	36724	36724
pink	36726	36726
burgundy	36725	36725
brown glossy	47653	47653
apple green	36727	36727
sky blue glossy	48397	48397
azure blue	36717	36717
black	36715	36715
silver	36731	36731
gold	36730	36730

* Sold in North America Only

Reflective vinyl*

surface color		0.139 mm (.20")
white	36732	36732
yellow	36735	36735
blue	36734	36734
black	36733	36733

BENEFITS

- Resistant to most oils, alkalies & mild acids
- Great for banners and window signs
- Semi-gloss finish

APPLICATIONS

Interior and exterior sign applications

SPECIFICATIONS

Finish	Semi Gloss
Composition	Vinyl
Thickness	0.8 mm (0.0032") <i>Standard</i> 0.139mm (.0055") <i>Reflective</i>
Standard Size	15" x 50 yard roll 381mm x 45.72m
Reflective Size	14" x 10 yard roll 355.6mm x 9.14m

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (180°F)

TECH TIPS

Mist surface with a mixture of dish soap and water prior to applying vinyl to allow for repositioning only if necessary.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
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BENEFITS

- Laser engraving and cutting
- 0.025 mm (.001") cap layer for detailed engraving
- 0.5 mm (.020") thickness suitable for bevelling
- UV resistant
- Metallic, glossy, brushed, matte finish
- Excellent for interior and exterior signage

APPLICATIONS

Badges, trophy plates, award plates, identification plates, interior and exterior signage

SPECIFICATIONS

Finish	Metallic, Glossy, Brushed, Matte
Composition	DR Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

We offer fabrication services to prepare your badges, labels, plates, etc. All you have to do is engrave them. Contact us for more information.

For custom colors, see Custom materials on demand p.10.



Indoor

surface / core color	2-ply		
	0.5 mm (.020")	0.8 mm (.030")	1.3 mm (.050")
radiant silver / black	51026	49986	49986
radiant silver / blue	51059	51013	51013
glossy silver / black	29548	51027	49980
brushed silver / black	18961	19003	19003
brushed silver / blue	18968		
brushed aluminum / black	82976	51025	49981
matte aluminum / black	51024	51002	51002
brushed bronze / white	29545		29555
brushed bronze / black	29544	51032	51004
copper / black	29546		29556
radiant gold / black	51028	49983	80840
brushed gold / black	18960	51031	49985
european gold / black	29542	51030	49982
european gold / silver	75717		
glossy gold / black	29543	51029	49984



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CO₂



Rotary



UV Print



Indoor



Outdoor



Surface

Outdoor

surface / core color	2-ply 1.6 mm (1/16")*	
glossy aluminum / black	81694	
matte aluminum / black	78538	
brushed silver / black	78539	
brushed copper / black	78541	
brushed gold / black	78540	

* Other thickness available on demand

BENEFITS

- Laser engraving and cutting
- 0.025 mm (.001") cap layer for detailed engraving
- 0.5 mm (.020") thickness suitable for bevelling
- UV resistant
- Metallic, glossy, brushed, matte finish
- Excellent for interior and exterior signage

APPLICATIONS

Badges, trophy plates, award plates, identification plates, interior and exterior signage

SPECIFICATIONS

Finish	Metallic, Glossy, Brushed, Matte
Composition	DR Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

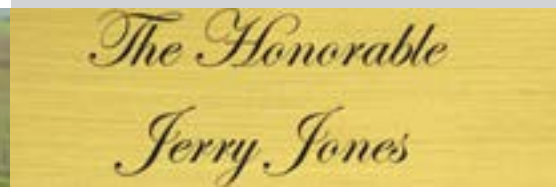
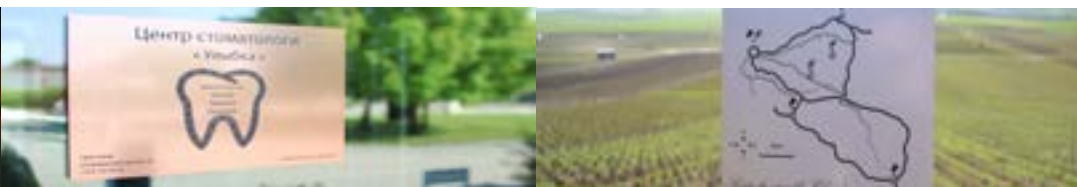
We offer fabrication services to prepare your badges, labels, plates, etc. All you have to do is engrave them. Contact us for more information.

For custom colors, see Custom materials on demand p.10.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com

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GRAVOGRAPH



BENEFITS

- 2-ply silver, gold, aluminum, bronze
- Microthin surface layer
- Metallex™ is excellent for indoor applications
- Metallex™ Gloss has an extra durable, scratch resistant, glossy cap
- Metallex™ Hard Coat for a smooth, supergloss finish

APPLICATIONS

Badges, identification plates, plates

SPECIFICATIONS

Finish	Glossy, Matte, Brushed
Composition	ABS
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

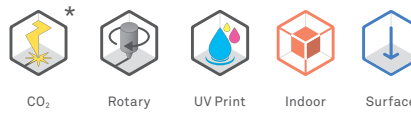
Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Metallex™ Gloss: a glossy cap is applied, giving a slightly grainy surface for less fingermarks and higher scratch resistance.

Metallex™ Hard Coat: topcoat processing giving a smooth, super gloss finish.

For custom colors, see Custom materials on demand p.10.



Metallex™

surface /
core color

surface / core color	2-ply		
	0.5 mm (.020")	0.8 mm (1/32")	1.5 mm (1/16")
brushed silver / black		21825	21889
matte aluminum / black	53224	21867	21941
brushed aluminum / black	53221	21830	21898
glossy silver / red			21902
glossy silver / blue			21900
glossy silver / black		71616	21823
new gold / black	53222	21846	21914
radiant gold / black		21824	21888
europaean gold / black		21836	21903
glossy gold / black	53223	21822	21886
brushed bronze / white		21826	21890
brushed bronze / black		21904	

Metallex™ Gloss

		2-ply
brushed aluminum / black		23974
glossy silver / black		23972
radiant gold / black		23973
europaean gold / black		23975
glossy gold / black		23971

Metallex™ Hard Coat

		2-ply
radiant silver / black		21892
brushed aluminum / black		21883
glossy silver / black		21882
radiant gold / black		21891
europaean gold / black		21884
glossy gold / black		21881

* Metallex™ products have a laserable foil cap but engraving color results can vary according to the reference. Vector cutting is not recommended.



Printed colors for indication only. Cannot serve as a substitute for real material sample. The dimensions indicated represent our minimal commitment.





Rotary



UV Print



Indoor



Surface

Double-sided		1.5 mm (1/16")	18471**
surface / core color		3.0 mm (1/8")	18482*
gold / black / silver			18472*
silver / black / silver			18471**

* One side brushed gold, other side matte silver
 ** Both sides matte silver

BENEFITS

- One product with two finishes
- Aluminum caps with a black phenolic core
- No paint filling required

APPLICATIONS

Professional interior signage, award plates, identification plates, signage

SPECIFICATIONS

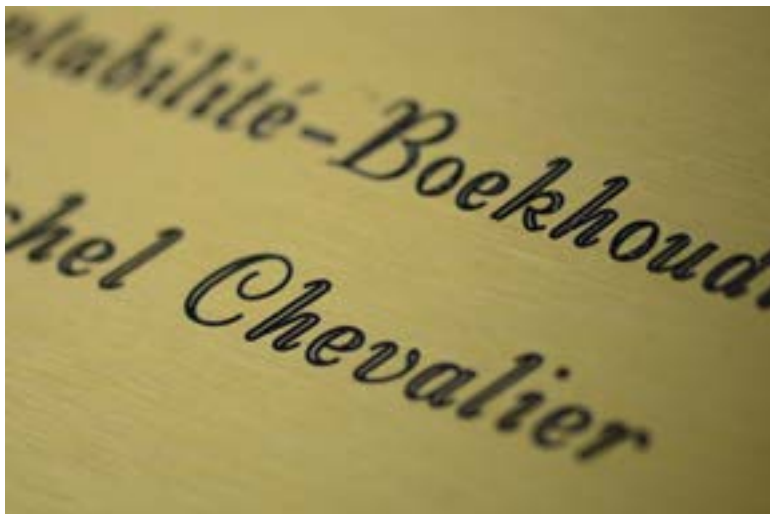
Finish	Brushed, Matte
Composition	Aluminum / Phenolic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 605 mm (48" x 23")
Half sheet	610 mm x 605 mm (24" x 23")
Quarter sheet	605 mm x 305 mm (23" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	-
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	180°C (356°F)

TECH TIPS

This material offers the advantages of aluminum without the inconvenients. Its aluminum surface on both sides and phenolic core save time and money by avoiding paint filling.

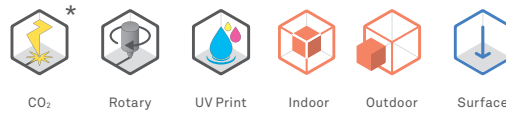


Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
 Printed colors for indication only. Cannot serve as a substitute for real material sample.
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BENEFITS

- For rotary and laser engraving
- High detail laser engraving



APPLICATIONS

Control panels, legend plates, award plates, interior and exterior signage

SPECIFICATIONS

Finish	Satin or Glossy
Composition	Aluminum
Engraving depth	0.1 mm (.004")
Full sheet	610 mm x 610 mm (24" x 24")
Half sheet	610 mm x 305 mm (24" x 12")
Quarter sheet	305 mm x 305 mm (12" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	■
Min. temp.	0°C (30°F)
Max. temp.	82°C (180°F)

TECH TIPS

Strong anodization for a durable protection of the material.

You can use Gravograph recommended paint to color any GravoXal™ engraving. See p.67.

Aloxide may be used to color glossy plates (small characters) after rotary engraving.

			0.5 mm (.020")**
			0.8 mm (1/32")
			1.6 mm (1/16")
satin red		34526	34519
satin blue		34496	34495
satin silver		34624	34617
			34619
glossy gold		34594	34592
satin black		34454	34452
			34453

Sold in North America Only
Silver colors are anodized on both sides during the continuous anodization process.
Protective film on one side.
Due to the process, there can be stains in the corners of aluminum sheets.
* Laser engraving on colored materials. The engraving contrast may vary according to the color.
** Sheet size 24"x12" for .020".



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The dimensions indicated represent our minimal commitment.
Anodizing process may produce slightly different colors from one batch to another.





CO₂



Rotary



Indoor



Surface

Colored Steel*

surface / core color	2-ply	0.38 mm (.015")
satin gold / gold	27421	0.38 mm (.015")
glossy black / gold	27422	0.38 mm (.015")
glossy purple / gold	27423	0.38 mm (.015")
glossy dark green / gold	27424	0.38 mm (.015")
glossy blue / gold	27425	0.38 mm (.015")
glossy red / gold	27426	0.38 mm (.015")
glossy royal blue / gold	27427	0.38 mm (.015")
glossy white / gold	27428	0.38 mm (.015")

Marbled Steel*

surface / core color	2-ply	0.38 mm (.015")
blue marble / gold	27429	0.38 mm (.015")
green marble / gold	27431	0.38 mm (.015")
red marble / gold	27432	0.38 mm (.015")
teal marble / gold	27433	0.38 mm (.015")
black marble / gold	27434	0.38 mm (.015")

* Sold in North America Only

BENEFITS

- Satin or glossy finish
- 0.38mm (.015") overall thickness
- Laser and rotary engraving
- Brass-plated steel

APPLICATIONS

Trophies, award plaques, gold lettering

SPECIFICATIONS

Finish	Satin or glossy
Composition	Brass plated steel
Engraving depth	0.05 mm (.002")
Full sheet	610 mm x 305 mm (24" x 12")
Half sheet	305 mm x 305 mm (12" x 12")
Quarter sheet	305 mm x 152 mm (12" x 6")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	-
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	100°C (212°F)

TECH TIPS

Use the rotating diamond cutter with the rotation turned off for bolder engraving.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com

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The dimensions indicated represent our minimal commitment.
Anodizing process may produce slightly different colors from one batch to another.

GRAVOGRAPH



BENEFITS

- High quality engraver's brass
- Paint fill with Gravograph recommended paint



APPLICATIONS

High quality signage, company name plates

SPECIFICATIONS

Finish	Solid or shiny polished
Composition	Brass
Engraving depth	0.3 mm (.012")
Full sheet	1340 mm x 670 mm (52" x 26")
Half sheet	670 mm x 670 mm (26" x 26")
Quarter sheet	670 mm x 335 mm (26" x 13")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	370°C (700°F)

TECH TIPS

Brass oxidation is a natural phenomenon. Clean your Gravobrass™ Exterior regularly to preserve its brightness or add a protective varnish after engraving. Solid brass is unpolished and may feature surface defects.

You can use Gravograph recommended paint to color any Gravobrass™ Exterior engraving. See p.67. Use of chemicals on this material is not recommended.

Shiny polished

shiny polished brass	22032	1.0 mm (.04")
	22034	1.5 mm (1/16")
	22036	2.0 mm (1/12")
	22038	3.0 mm (1/8")

Solid

solid brass	22031	1.0 mm (.04")
	22033	1.5 mm (1/16")
	22035	2.0 mm (1/12")
	22037	3.0 mm (1/8")

Solid brass is unpolished and may feature surface defects.



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Rotary



UV Print



Indoor



Surface

Glossy

surface / core color	gold / gold	18407	0.5 mm (.020")
		18435	1.2 mm (.050")

Satin

gold / gold		18423	0.5 mm (.020")
		18438	0.6 mm (.025")
gold bronze / gold		77801*	1.2 mm (.050")
		18429	1.6 mm (.1716")
silver / gold			

* Sold in North America Only

BENEFITS

- Diamond, rotary and burnish engraving
- Pre-polished and lacquered

APPLICATIONS

Interior signage, award plates, ornamental plates

SPECIFICATIONS

Finish	Glossy or Satin
Composition	Brass
Engraving depth	0.1 mm (.004") / 0.3 mm (.012")
Full sheet	1220 mm x 305 mm (48" x 12")
Half sheet	610 mm x 305 mm (24" x 12")
Quarter sheet	305 mm x 305 mm (12" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	200°C (392°F)

TECH TIPS

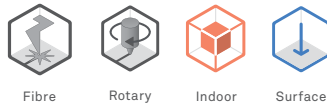
High quality brass varnish finish, ideal for indoor plates. You can also add a protective varnish after engraving for outdoor use. Apply clear lacquer after engraving to avoid tarnishing. Use Gravoxide or paint fill for contrasting letter color.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
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BENEFITS

- Lightweight
- Easy to shear
- Sublimatable



APPLICATIONS

Trophies, award plates, name plates, signage

SPECIFICATIONS

Finish	Satin or glossy
Composition	Aluminum
Engraving depth	0.2 mm (.008")
Full sheet	1220 mm x 305 mm (48" x 12")
Half sheet	610 mm x 305 mm (24" x 12")
Quarter sheet	305 mm x 305 mm (12" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	100°C (212°F)

TECH TIPS

Thin aluminum for small plates and labels, to be engraved with your laser machine.
Good contrast result after engraving.

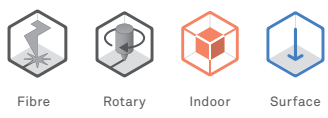
surface / core color	2-ply	0.6 mm (.025")
glossy white / silver		34426*
glossy red / silver		34528
glossy blue / silver		34497
satin gold / silver		34595
glossy gold / silver		34596
satin silver / silver		34625
glossy silver / silver		34626
glossy black / silver		34455

* Glossy white full sheet 610 mm x 305 mm (24" x 12").



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surface / core color	2-ply	0.5 mm (.020")
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 black / gold		34677
matte black / gold		61083

BENEFITS

- Lightweight
- Easy to shear

APPLICATIONS

Trophies, award plates, name plates

SPECIFICATIONS

Finish	Satin, glossy or matte
Composition	Brass
Engraving depth	0.2 mm (.008")
Full sheet	610 mm x 305 mm (24" x 12")
Half sheet	305 mm x 305 mm (12" x 12")
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	370°C (700°F)

TECH TIPS

The ideal brass material for all your trophy and award plates. Large choice of colors and great contrast results after engraving process.

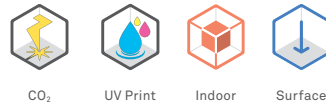
We recommend engraving with a diamond or laser.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
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BENEFITS

- This special line of gold and silver anodized aluminum returns black characters when lasered with any standard CO₂ laser engraver.
- No oxidation or paint fill needed.
- Only 6-10 watts of power required.
- Satin finish



APPLICATIONS

ID plates, bar codes, labels, control panels

SPECIFICATIONS

Finish	Satin
Composition	Aluminum
Engraving depth	0.025 mm (.001")
Full sheet	610 x 508 mm (24" x 20")
Half sheet	-
Quarter sheet	-
Other size	305 x 254 mm (12" x 10") for 27414 508 x 305 mm (20" x 12") for 45878 610 x 305 mm (24" x 12") for 45879 & 45878

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	-
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	230°C (450°F)

TECH TIPS

Save time with this aluminum: no need to paint fill to get a black mark.

Power sensitive material. If image is grey, reduce power. If image is tan, increase power.

Engraving quality is improved using 50% speed.

Laser power: 6 - 10 watts

surface /
core color

		0.127 mm(.005")**
		0.5 mm (.020") *
satin silver / black		27414* 27417 27419
satin gold / black		27415 27416
satin brass / black		45879*** 45878***
matte silver / black		27418****
satin bronze / black		45881****

* Delivered with adhesive backing.

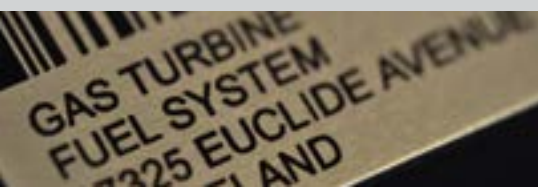
** Dimensions 12" x 10"

*** Dimensions 12" x 20"

**** Sold in North America Only



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* Delivered with adhesive backing.



BENEFITS

- CO₂ laser markable aluminum for durable marking for harsh operating environments.
- Resistant to sunlight (UV-radiation), abrasion, high-temperatures, salt-spray and chemical exposure.
- Meets several government, industrial and military specifications

APPLICATIONS

Durable signage, placards, barcodes, asset tags

SPECIFICATIONS

Finish	Matte
Composition	Aluminum
Engraving depth	0.025 mm (.001")
Full sheet	610 mm x 508 mm (24" x 20")
Half sheet	508 mm x 305 mm (20" x 12")
Quarter sheet	305 mm x 254 mm (12" x 10")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	-
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	370°C (700°F)

TECH TIPS

Aluminum for CO₂ laser marking needs in high production environments.

Conforms to: MIL-STD 130N, A-A-50271, and MIL-STD-15024F, Type L, MIL-STD-810G for withstanding 96 hours of exposure to corrosive chemicals. ASTM B117 30 days exposure to salt fog.

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com
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BENEFITS

- Safe composition, better for you, better for nature
- A trendy product for new possibilities
- 4 different thicknesses
- 0.4 mm (1/64") as thin as paper, for flexible applications

APPLICATIONS

Interior signage, Architectural models, decoration, gifts, promotional items, personalized cards, DIY projects.

SPECIFICATIONS

Finish	Matte
Composition	Natural plywood
Engraving depth	0.1 mm (.004")
Full sheet	610 x 305mm (24" x 12")
Half sheet	-
Quarter sheet	-
Other size	-

CAPABILITIES

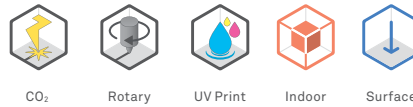
Interior	■
Exterior	-
Shear	0.4mm (1/64") & 1.0mm (3/64) ■
Saw	2.5mm (3/32") & 4.5mm (11/64) ■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-200°C (-328°F)
Max. temp.	100°C (212°F)

TECH TIPS

We recommend that you let the material acclimate to interior conditions before use.

Apply masking paper (ref. 45897) to the sheet to avoid dust and fumes during CO₂ laser cutting.

Hold the sheet flat on the honeycomb table using clamps (ref. 83366).



CO₂ Rotary UV Print Indoor Surface

Double-sided				
		0.4 mm (1/64")	1.0 mm (3/64")	2.5 mm (3/32")
wood species				
birch		82741	82742	82743
beech			82747	82748
oak			82745	82746
walnut		82749	82750	

Wood is a natural organic material. Thickness, color and aspect can vary from one sheet to another.

Packaged by 5



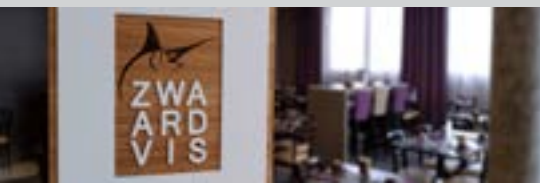
Masking paper ref. 45897



Clamps (pack of 6) ref. 83366



Printed colors for indication only. Cannot serve as a substitute for real material sample. Laserwood-GV_US_V1-0_0919.





Think Green. Go Green.

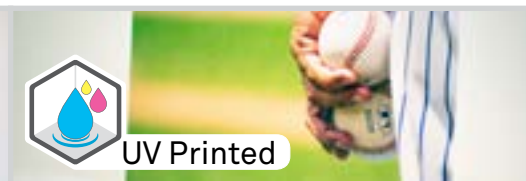
LASER WOOD



by GRAVOGRAPH 

GRAVOTECH GROUP

Laser Wood is an all-natural engravable wood product developed by Gravograph and created from forests managed and controlled by PEFC™ (The Program for the Endorsement of Forest Certification). PEFC™ is an international, non-profit, non-governmental organization that promotes sustainable forest management and preservation. Because of this, we can assure you that when you purchase Laser Wood, you will receive an environmentally friendly material, free of chemical components. Laser Wood is a light material that's available in the standard sizes that you're already used to using. This means it's easy to store, easy to handle, and ready to use on your laser or rotary machine right out of the box. We are committed to delivering Laser Wood in the absolute best conditions. Shipped in packaging specifically developed to protect the material during transportation, Laser Wood will arrive to you with limited light exposure and weather impact. At Gravograph, we are dedicated to providing premium engraving machines and material and we are proud to have Laser Wood among our supply of reliable products!



Slatz Sign Systems

Excellent for interior or exterior upscale signage

Our exclusive Engraver's Sign System combines silver and gold aluminum shapes and injection-molded plastics into a unique system of interchangeable components for single signs and directories. Some assembly required. Simply engrave the inserts, snap into place, and your interior sign system is ready for installation.



Available Dimensions for Inserts

2 7/8" x 9"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"

2 7/8" x 9"
2 1/16" x 9"
2 1/16" x 9"

2" x 9"
3 5/8" x 9"
1 1/2" x 9"

3 11/16" x 9"
3 11/16" x 9"

7 22/32" x 9"

Description	Dimensions	Gold	Silver
Mini-directory	9-5/8"x10-9/16"	34845	34903



Available Dimensions for Inserts

2 7/8" x 9"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"

4 1/2" x 9"
7 47/64" x 9"

9" x 12 19/32" Cut Cross Grain

9" x 12 19/32"

Description	Dimensions	Gold	Silver
Standard directory	9" x 15-7/16"	34846	34904



Available Dimensions for Inserts

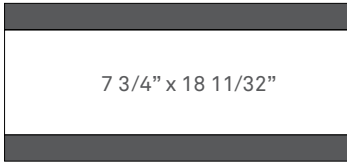
2 7/8" x 18 11/32"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"
1 17/64" x 9"

2 7/8" x 18 11/32"
4 1/2" x 9"
4 1/2" x 9"
4 1/2" x 9"
4 1/2" x 9"

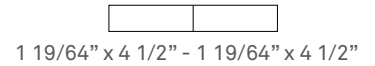
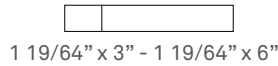
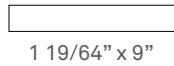
2 7/8" x 18 11/32"
9" x 9 11/32"
9" x 9 11/32"
Cut Cross Grain
Cut Cross Grain

Description	Dimensions	Gold	Silver
Multi-column	15-7/16" x 18-15/16"	34847	34905

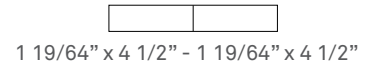
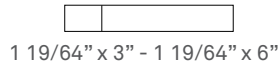
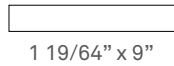
Available Dimensions for Inserts



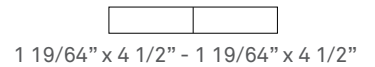
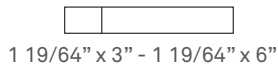
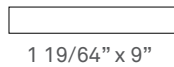
Description	Dimensions	Gold	Silver
Horizontal title sign	10-1/2" x 18-15/16"	34908	34909



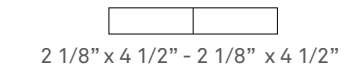
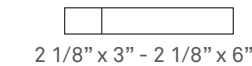
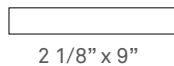
Description	Dimensions	Gold	Silver
Deskplate	1-5/8" x 9-1/8"	34843	34901



Description	Dimensions	Gold	Silver
Deskbar	1-1/4" x 10-1/2"	34848	34906



Description	Dimensions	Gold	Silver
Wallplate	1-5/8" x 9-1/8"	34844	34902



Description	Dimensions	Gold	Silver
2-line wallplate	2-5/16" x 9-1/8"	34849	34907

Note: We will manufacture custom size directories to your specifications. Call for pricing. Recommend: 1/32" or 1/16" inserts, no thicker than 1/16"



Engravers Slatz dealer kit 36319

Engraved multi-column, standard and multi-directories, plus wallplates featuring our newest sign materials. Kit also includes two Velcro boards for display.

Engravers Slatz sign introductory kit 35485

Includes standard silver directory, one each gold and silver mini-directory, deskbar, wallplate and deskplate.

- Recommendations
- . 1/32" or 1/16" inserts
 - . Inserts should not be thicker than 1/16"



Components

We chose the sizes most often specified by architects and facility managers. All directories can be rearranged to accommodate multiple insert formats. Simply arrange insert plates to accommodate your specified format.

All directions and signs feature molded plastic multi-clips inserted into their tracks. Backplates and trimplates then snap-fit onto the multi-clip ensuring accurate spacing, design flexibility and tamper-resistance.

Removal key

Individual insert plates of the directory may be removed from the front of a sign or directory without disturbing an entire group of insert plates.

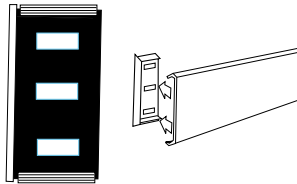
34870



End caps

Used for wallplate and deskbar, the black cap snap-fits into the back of the backplate, covering the exposed edges and concealing the preformed mounting hole.

49008



Insert plate

Extruded aluminum which snap-fits into multi-clip system.

	Gold	Silver
9"	34942	34869
18"	34850	34874



Trackcaps

34871

Black mounted plastic caps that push into top and bottom of sidetracks.



Note: Do you need a specific size? We can customize a sign to any size that fits your needs!

Directories and Sign Holders



Description	Directory Size	Header	Insert	Extender	Ref.
Deluxe Directories, Header Plus One Insert Line	2 11/16" x 7"	1 1/4" x 7" x 1/16"	3/4" x 7" x 1/16"	-	34910
Deluxe Directories, Header Plus Three Inserts	3 1/2" x 7"	1 1/4" x 7" x 1/16"	3/4" x 7" x 1/16"	-	34911
Directory Extender	-	-	3/4" x 7" x 1/16"	5" x 7 3/16"	34913



Overall Frame Size	Strip Size: Top	Strip Size: Bottom	Color	Ref.
6 1/4" x 12 1/4"	11/16" x 6 1/4"	15/16" x 10 1/4"	Chrome	36120
6 1/4" x 12 1/4"	11/16" x 6 1/4"	15/16" x 10 1/4"	Matte Black	35785
6 1/4" x 12 1/4"	11/16" x 6 1/4"	15/16" x 10 1/4"	Gold	-

Note: directory sizes are inside dimensions.

Counter and Desk Bases



#15



#35



#P100

Description	Inserts	Size	Max. Sign Height	Gold	Silver	Black	Clear	JRS#
Counter Sign Holder: holds up to 8" tall	1/8"	2 1/2" x 10"	8"	34826	34881	-	-	55
Counterbase Plateholder Tall Back	1/16"	3/4" x 10"	2"	65908	65907	-	-	15*
Counterbase Plateholder Tall Back	1/16"	3/4" x 8"	2"	65906	65905	-	-	15*
Counterbase Plateholder Tall Back	1/16"	1 1/4" x 10"	6"	65912	65911	-	-	35*
Counterbase Plateholder Tall Back	1/16"	1 1/4" x 8"	6"	65910	95509	-	-	35*
Desk Holder	1/8"	1/8" x 10"	12"	65953	65952	-	-	22
Desk Holder	1/8"	1/8" x 8"	12"	65951	65950	-	-	22
Desk Holder	3/32"	1 1/4" x 10"	6"	65961	65960	-	-	39
Desk Holder	3/32"	1 1/4" x 8"	6"	65959	65958	-	-	39
Deskplate Holder	1/16"	2" x 10"	6"	-	-	65945	65944	P100*
Deskplate Holder	1/16"	2" x 8"	6"	-	-	65946	65943	P100*
Plate Stand	1/16"	15/16" x 8"	3"	19474	19480	-	-	50
Plate Stand	1/16"	15/16" x 10"	3"	34825	34880	-	-	50

Continued on the next page...

*Pictures are shown above

Multiple Sign Holders

Description	Inserts	Size	Gold	Silver	Black	JRS#
Two-Line Plate Holder	1/16"	Top: 2" x 9" Bottom: 1 1/2" x 9"	34824	-	-	23
Two-Line Plate Holder	1/16"	1 1/4" x 6"	30075	30074	-	71
Multiple Insert Wall Plate Holder: Center Strip	1/16"	25"	34843	34895	-	76*
Multiple Insert Wall Plate Holder: Frame Strip	1/16"	25"	34840	34894	-	75*
Multiple Wall Bracket	1/16"	1" x 10"	65972	-	-	103
Multiple Wall Bracket	1/16"	1" x 10"	65976	65975	-	104*
Multiple Wall Bracket	1/16"	1" x 8"	65974	65973	-	104*
Multiple Wall Bracket	1/16"	1" x 10"	65986	65971	-	106*
Multiple Wall Bracket - 3 slots of 1" x 10"	1/16"	3" x 10"	-	65985	-	106*
Multiple Wall Bracket	1/16"	1 1/2" x 6"	65978	65977	-	112
Multiple Wall Bracket	1/16"	1 1/2" x 8"	65980	65979	-	112
Multiple Wall Bracket	1/16"	Top: 1" x 10" Bottom: 1 1/2" x 10"	65982	65981	-	107
Multiple Wall Bracket	1/16"	Top: 1" x 6" Bottom: 2" x 6"	73429	73430	73431	115
Multiple Wall Bracket	1/16"	Top: 1" x 8" Bottom: 2" x 8"	73432	73433	73434	115
Multiple Wall Bracket	1/16"	Top: 1" x 10" Bottom: 2" x 10"	65984	65983	73435	115
Multiple Wall Bracket	1/16"	Top: 1" x 12" Bottom: 2" x 12"	73436	73437	73438	115



#76



#75



#104



#106

Plate Holders

Description	Inserts	Size	Gold	Silver	JRS#
Rib Back Plate Holder	1/16"	2" x 8"	19476	19485	58*
Rib Back Plate Holder	1/16"	2" x 10"	30069	30068	58*
Rib Back Plate Holder	1/16"	2" x 26"	34837	34891	58*
Plate Holder	1/8"	2" x 8"	34838	34892	94*
Plate Holder	1/8"	2" x 10"	34839	34893	94*



#58



#94

Plate Holders Continued...

Description	Inserts	Size	Gold	Silver	Black	Clear	JRS#
Desk Plate Holder Plain back	1/16"	1" x 6"	65898	65897	-	-	25
Desk Plate Holder Plain back	1/16"	1" x 8"	65900	65899	-	-	25
Desk Plate Holder Plain back	1/16"	2" x 12"	73406	73407	73408	-	48
Desk Plate Holder Plain back	1/16"	2" x 10"	65904	65903	-	-	48*
Desk Plate Holder Plain back	1/16"	2" x 8"	65902	65901	73409	-	48
Pedestal Plate Holder	1/16"	1 1/2" x 9"	34823	34877	-	34995	31*
Slimline Plate Holder	1/16"	1" x 7"	30073	30072	-	-	25
Standard Plate Holder	1/16"	2" x 8"	30077	34882 30076**	-	-	59
Standard Plate Holder	1/16"	2" x 10"	34820	19479	-	-	59*
Standard Plate Holder	1/16"	2" x 8"	34821	34875	-	-	11
Standard Plate Holder	1/16"	2" x 10"	-	34876	-	-	11
The Executive	1/16"	2" x 8"	34842	34900	-	-	34*
Wall Plate Holder	1/16"	1/2" x 4"	73410	-	-	-	86
Wall Plate Holder	1/16"	1/2" x 8"	86-08-G	-	-	-	86
Deskplate Holder	1/16"	1-1/2" x 8"	73411	-	-	-	70
Wall Plate Holder	1/16"	4" x 12"	-	-	73412	-	51
Wall Plate Holder	1/16"	3" x 3"	73406	73414	73415	-	37
Wall Plate Holder	1/16"	3" x 5"	73416	73417	73418	-	37
Wall Plate Holder	1/16"	3" x 6"	73419	73420	73421	-	37
Wall Plate Holder	1/16"	3" x 8"	-	-	73422	-	37
Wall Plate Holder	1/16"	3" x 10"	-	-	73423	-	37
Wall Plate Holder	1/16"	3" x 12"	-	73424	73425	-	37
Wall Plate Holder	1/16"	3" x 14"	73426	73427	73428	-	37



Description	Inserts	Size	Gold	Silver	Black	JRS#
Utility Wall Plate Holder	1/16"	3/4" x 26"	34829	34885	-	44
Utility Wall Plate Holder	1/16"	1" x 4"	19475	19482	-	56
Utility Wall Plate Holder	1/16"	1" x 6"	30067	30066	-	56
Utility Wall Plate Holder	1/16"	1" x 8"	34830	19483	-	56
Utility Wall Plate Holder	1/16"	1" x 10"	34831	34886	-	56
Utility Wall Plate Holder	1/16"	1" x 26"	34832	34887	-	56
Utility Wall Plate Holder	1/16"	1 1/2" x 8"	34833	34888	-	57
Utility Wall Plate Holder	1/16"	1 1/2" x 9"	34834	34889	-	57
Utility Wall Plate Holder	1/16"	1 1/2" x 10"	34835	-	-	57
Utility Wall Plate Holder	1/16"	1 1/2" x 26"	34836	34890	-	57

Plate Holders Continued...

Description	Inserts	Size	Gold	Silver	Black	JRS#
Wall Bracket	1/8"	2 1/2" x 2"	30070	19486	73439	38*
Wall Bracket	1/8"	2 1/2" x 3"	34827	34883	73440	38*
Wall Bracket	1/8"	2 1/2" x 4"	30071	19487	-	38*
Wall Bracket	1/8"	2 1/2" x 5"	34828	34884	-	38*
Wallplate Holder Plainback	1/16"	1" x 4"	65914	65913	-	28*
Wallplate Holder Plainback	1/16"	1" x 6"	65916	65915	73441	28*
Wallplate Holder Plainback	1/16"	1" x 8"	65918	65917	73442	28*
Wallplate Holder Plainback	1/16"	1" x 10"	65920	65919	73444	28*
Wallplate Holder Plainback	1/16"	1" x 12"	73445	73446	73447	28*
Wallplate Holder Plainback	1/16"	1 1/2" x 6"	65922	65921	-	29
Wallplate Holder Plainback	1/16"	1 1/2" x 8"	65924	65923	-	29
Wallplate Holder Plainback	1/16"	1 1/2" x 10"	73448	73449	73450	29
Wallplate Holder Plainback	1/16"	1 1/2" x 12"	73451	73452	73453	29
Wallplate Holder Plainback	1/16"	2" x 4"	73454	73455	73456	36*
Wallplate Holder Plainback	1/16"	2" x 6"	65926	65925	73457	36*
Wallplate Holder Plainback	1/16"	2" x 8"	65928	65927	73458	36*
Wallplate Holder Plainback	1/16"	2" x 10"	65930	65929	73459	36*
Wallplate Holder Plainback	1/16"	2" x 12"	-	-	73460	36*
Wallplate Holder Plainback	1/16"	2" x 14"	73461	73462	73463	36*
Wallplate Holder Plainback	1/16"	3" x 10"	65936	65935	-	36*
Wallplate Holder Plainback	1/16"	3" x 12"	65938	65937	-	36*
Wallplate Holder Plainback	1/16"	3" x 8"	65934	65933	-	36*
Wallplate Holder Plainback	1/16"	4" x 6"	73464	73465	73466	49
Wallplate Holder Plainback	1/16"	4" x 8"	73467	73468	73469	49
Wallplate Holder Plainback	1/16"	4" x 10"	65940	65939	73470	49
Wallplate Holder Plainback	1/16"	4" x 12"	65942	65941	73471	49
Wallplate Holder Plainback	1/16"	4" x 14"	73472	73473	73474	49
Wallplate Plain Back	1/16"	1 5/8" x 8"	65963	65962	-	46
Wallplate Plain Back	1/16"	1 1/4" x 6"	65965	65964	-	47
Wallplate Plain Back	1/16"	1 1/4" x 8"	65967	65966	-	47
Wallplate Plain Back	1/8"	3" x 12"	65970	65968	-	52



#36



#28



#38

Modular Frame System

Designed for interior signage. Frame construction provides flexibility for installations and sign inserts. Signs change over easily. Sign inserts fit securely into frames with a snap lock mechanism. Frames and inserts are tamper-resistant.

I. Modular frame directory

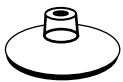
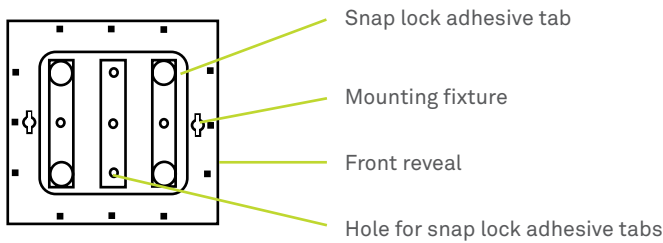
A. The header and base are 3" x 18", sold as a set. Insert panels are 2" x 18", sold separately.

B. Use as many insert panels as necessary to create the desired directory size. Snap locks and hardware included.

See chart on page 61 for part numbers.

II. Ceiling/wall mount

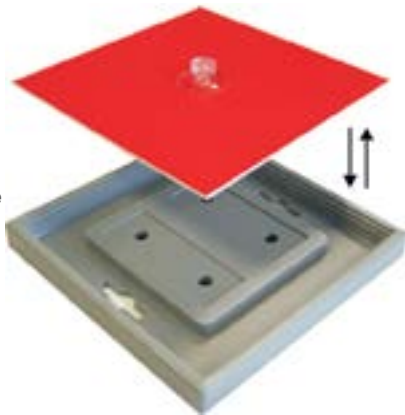
C. Designed to mount modular frames perpendicular to walls and ceilings. Instructions included.



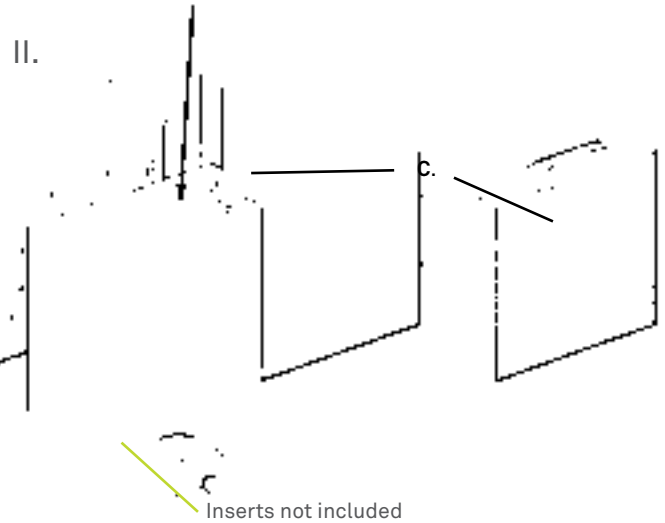
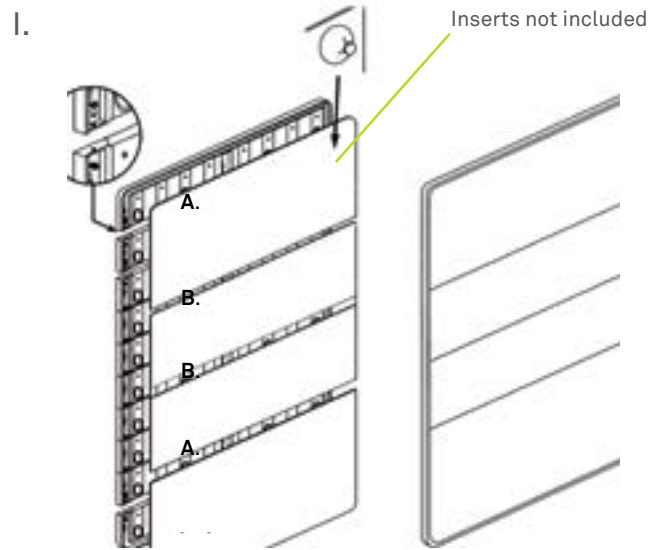
Suction cup
3/4" diameter 36351



Snap lock with adhesive
Set of 12 36352



When fabricating sign inserts, allow .005" to .010" for expansion and contraction of integrated materials.



Frame design

Feature 2 reveals. The front reveal gives sign inserts a recessed look. The back reveal provides a projected appearance.

Snap lock mechanism

Positive locking snap locks fit securely into the frame hole. Each snap lock has a pressure-sensitive adhesive tab to hold insert in place. The exclusive hole placement and snap lock system provides design flexibility for sign inserts.

Mounting

Pre-grooved back reveal ensures tape concealment. Mounting holes accommodate standard hardware for various types of wall installations.

Frame format

All frames, directories and deskbars except white, navy and taupe are available in round and square corners, and accommodate sign inserts which allow the maximum yields from our 24" x 48" standard sheet sign materials.

Custom modular frames

We offer white, black, almond, navy, taupe, gray and brown. Custom colors and sizes are available. Subject to minimum order requirements.

Aluminum Modular Frame System

Aluminum frames incorporate “picture frame technology” for incredible flexibility with unlimited sizing. Pre-cut lengths are stocked in many sizes for quick assembly.

Custom sizes are available at no extra charge. Perfect for indoor or outdoor signage. Available in 2 edge designs and 3 colors. Frame legs are sold in pairs, complete with corner attaching hardware. You will need 2 pairs to complete a frame. This unique construction method will allow you to offer countless size combinations to your customers, with minimal inventory. The 17 sizes available will allow you to create over 150 different sign frame dimensions.

For example, if you want a 4” x 10” frame, simply purchase one of part number 34717 (4” paid or silver 100 series) and one of part number 34723 (10” pair of silver 100 series). You will receive everything you need to construct a silver 4” x 10” thin edge frame. For only \$1 per frame, we will construct them for you.

Two Edge Styles

SERIES 100

Features a thin edge with the sign insert recessed into the frame.

FEATURES

- . Custom sizing
- . Lightweight and durable
- . Frames can accept a variety of substrates; aluminum, plastics, etc...

SERIES 200

Features a 3/16” radius edge design that matches our high-impact styrene frames and a front reveal that allows the sign insert to have a slightly recessed appearance.

- . Sign inserts are easily changeable and can be modular
- . Concealed mounting
- . Easy installation with either screws, tape, or Velcro
- . Easy sign removal for building maintenance such as painting walls



SUPPORT BRACKETS

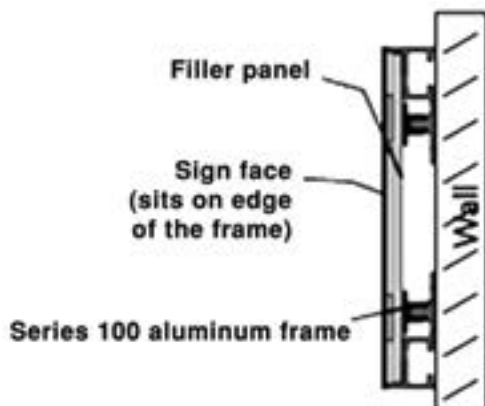
Support brackets are available for use with larger signs and when modular sign inserts are used. Support brackets are available in frame sizes.

SNAP LOCK MECHANISM

Each snap lock has a pressure sensitive adhesive tab to hold the sign face securely in place within the frame and provide tamper-resistant signage. Snap locks allow for easy sign face insertion, removal, and replacement.

MOUNTING

Frame back is designed for tape concealment. Mounting holes can be added to accommodate standard hardware for various types of installations.



Use the series 100 Framing System for “the frameless look”. Cut filler piece of material to fit inside the frame - adhere larger shape to filler piece to hide edges of frame. Use snap locks on filler piece to hold into frame.



Frame System Part Numbers

		Square Corner Part Numbers						
		White	Black	Almond	Gray	Brown	Navy	Taupe
Sizes	Insert (Not Included)							
2 x 4	1 59/64 x 3 59/64	34947	35017	35381	35120	35188		
2 x 6	1 59/64 x 5 59/64	34948	35018	35382	35121	35189		
2 x 8	1 59/64 x 7 59/64	34949	35019	35383	35122	35190	29675	29683
2 x 10 Desk Bar	1 59/64 x 9 59/64	34965	35035	35399	35139	35206		
2 x 10	1 59/64 x 9 59/64	34950	35020	35384	35123	35191	35322	35481
2 x 12	1 59/64 x 11 59/64	34952	35022	35386	35125	35193		
3 x 10	2 59/64 x 9 59/64	34953	35023	35387	35126	35194		
4 x 4	3 59/64 x 3 59/64	34951	35021	35385	35124	35192	29671	29679
4 x 8	3 59/64 x 7 59/64	34954	35024	35388	35127	35195	29672	29680
4 x 10	3 59/64 x 9 59/64	34956	35026	35390	35129	35197		
6 x 6	5 59/64 x 5 59/64	34955	35025	35389	35128	35196	29676	29684
6 x 8	5 59/64 x 7 59/64	34958	35028	35392	35131	35199	29677	29685
6 x 10	5 59/64 x 9 59/64	34959	35029	35393	35132	35200		
8 x 8	7 59/64 x 7 59/64	34960	35030	35394	35133	35201	29678	29686
8 1/2 x 11	8 59/64 x 10 59/64	34966	35036	35400	35140	35207		
6 x 12	5 59/64 x 11 59/64	34961	35031	35395	35134	35202		
10 x 10	9 59/64 x 9 59/64	34946	35016	35380	35119	35187	29673	29681
12 x 12	11 59/64 x 11 59/64	34957	35027	35391	35130	35198	29674	29682

Round Corner Part Numbers			
Black	Almond	Gray	Brown
35000	35364	35103	35171
35001	35365	35104	35172
35002	35366	35105	35173
35003	35367	35106	35174
35007	35371	35110	35178
35004	35368	35107	35175
35008	35372	35111	35179
35010	35374	35113	35181
35009	35373	35112	35180
35012	35376	35115	35183
35013	35377	35116	35184
35014	35378	35117	35185
34999	35363	35102	35170
35011	35375	35114	35182

Each modular frame comes with 4 snap locks.

*Clear lens for 8 1/2" x 11" frame: 34819 (not included).

Suction cup - 3/4" diameter - 36351 | Snap lock with adhesive (for plastic frames) - Set of 12 - 36353

Sizes	Insert (not included)	Square Corner Part Numbers					Round Corner Part Numbers				Insert Panels Modulations
		White	Black	Almond	Gray	Brown	Black	Almond	Gray	Brown	
3" x 18"	2 59/64 x 17 59/64	34963	35033	35397	35136	35204	35005	35369	35108	35176	A - Header & base insert (top & bottom)
2" x 18"	2 x 17 59/64	34943	34997	35361	35100	35168	34997	35361	35100	35168	B - Middle insert panels
3"		34962	35032	35396	35135	35203	35032	35396	35135	35203	C - Ceiling/wall mount

Regularly stocked items have a lead time of 4 weeks. Special order items have a lead time for 4-6 weeks.

Recommend 1/16" inserts; rounded corners are 1/2" round corners.



34716



34733

When fabricating sign faces, allow .005" - .010" clearance for expansion and contraction of materials.

Edge size	Series 100			Series 200			Support (Silver only)
	Silver	Black	Gold	Silver	Black	Gold	
3"	34716	34750	34784	34733	34767	34801	—
4"	34717	34751	34785	34734	34768	34802	35069
5"	34718	34752	34786	34735	34769	34803	35070
6"	34719	34753	34787	34736	34770	34804	35071
7"	34720	34754	34788	34737	34771	34805	35072
8"	34721	34755	34789	34738	34772	34806	35073
8.5"	34732	34766	34800	34749	34783	34817	35084
9"	34722	34756	34790	34739	34773	34807	35074
10"	34723	34757	34791	34740	34774	34808	35075
11"	34724	34758	34792	34741	34775	34809	35076
12"	34725	34759	34793	34742	34776	34810	35077
15"	34726	34760	34794	34743	34777	34811	35078
18"	34727	34761	34795	34744	34778	34812	35079
24"	34728	34762	34796	34745	34779	34813	35080
30"	34729	34763	34797	34746	34780	34814	35081
36"	34730	34764	34798	34747	34781	34815	35082
48"	34731		34799	34748	34782	34816	35083

Each part number above includes a pair of frame legs in the length mentioned and a pair of corner attaching hardware. Therefore, two part numbers are needed to complete a frame. For only \$1 per frame, we will construct them for you.

For aluminum modular frames, order snap locks separately.

Ready-made frames in the most popular sizes

Frame size	Series 100			Series 200		
	Silver	Black	Gold	Silver	Black	Gold
4" x 8"	34851	34857	34863	34854	34860	34866
6" x 6"	34852	34858	34864	34855	34861	34867
8" x 8"	34853	34859	34865	34856	34862	34868

Each part number above includes the complete frame fabricated in the overall dimensions listed above.
 Recommend: 1/16" inserts; snap locks optional.

Snap lock with adhesive (for aluminum frames) - set of 12 - **36352**

36351 Suction cup (1-3/4" diameter)

INSERT SIZES The frame sizing is equivalent to our existing modular frame system, so the insert size should always be 5/65" less than the size of the frame leg purchased. For example, a 6" x 8" frame would need a 5-59/64" insert. This is because an insert should always have .005" - .010" clearance for expansion and contraction of materials.



5 EASY STEPS TO PRODUCE ADA SIGNS:

1. Apply Gravotac 1/32" profile material with adhesive to substrate
2. Cut the pictogram and text
3. Weed away unused 1/32" Gravotac profile material
4. Engraver drills Raster® Braille pockets
5. Machine inserts Raster® beads into the sign completing the process



See pages 23 and 36 for compliant ADA sign substrates and additional Gravotac colors

Insist on the clean look of Raster® Braille

The Raster® Method has quickly become the preferred process for producing ADA compliant Braille. Fabrication is fast and easy. The perfectly rounded Braille beads have a clean uniform appearance. Raster® Braille can be used in almost any material, allowing greater flexibility in choice of material substrates as well as design options.

FEATURES:

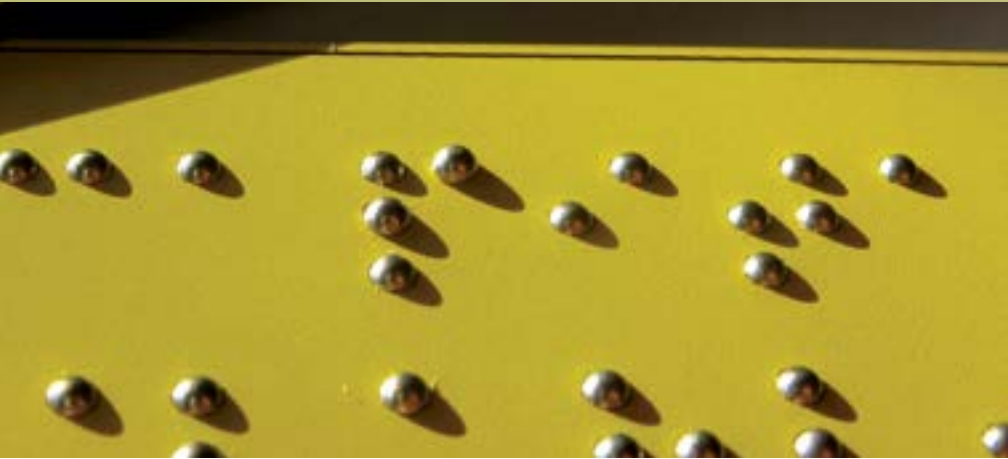
- Raster® Braille meets all of the latest federal ADA guidelines for dot dimension, spacing height, and shape.
- Raster® Braille complies with ANSI A117.1
- Raster® Braille complies with California Title 24 standards.
- Raster® Braille is weatherproof in almost any environment.
- Raster® Braille is attractive in appearance and easy to read.

COLORS & MATERIALS:

Raster® beads are available in UV stable acrylic and metal. Use clear Raster® beads for practically invisible Braille, or use a contrasting color and the Braille becomes a design element. Raster® beads are available in the following materials and colors:

Description	Reference
Stainless steel beads (x10000)*	35684
Clear acrylic beads (x10000)	35665
White acrylic beads (x10000)	35666
Black acrylic beads (x10000)	35664





Get started today producing Raster® Braille

1. Sign a license agreement
2. Have a Gravotech routing/engraving solution that includes a GravoStyle™ translator and a single point drill function.
3. Purchase the Raster® Pen License Kit which includes everything you need to get started producing Raster® Braille.

RASTER® PEN LICENSE KIT (41714) INCLUDES:

- Raster® Pen insertion device
- Raster® License for using the patented Raster® System
- Special carbide Braille cutter for drilling Raster® holes
- Special carbide Profile cutter for cutting tactile letters
- 10,000 acrylic UV stable Rasters® (clear, white, or black)
- Weeding tool (for tactile letters)
- Sign cleaning brush
- “How To Create Great Looking Interior Signage” manual
- CD ROM with ready to use sign layouts and more
- Raster® Braille sign sample
- High Impact styrene frame color selection key chain
- Aluminum modular frame color and edge key chain
- Organizer case for Kit contents
- Braille insertion practice material
- Gravotac™ sample keychain

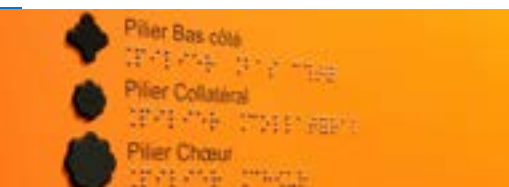
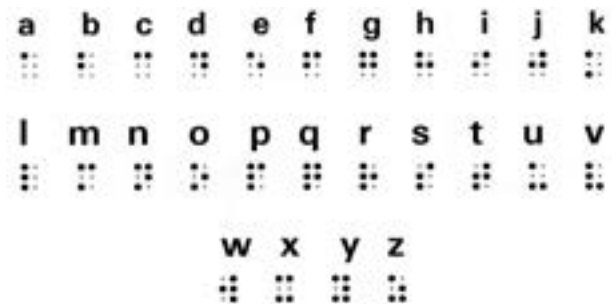
Gravotech Solutions

The Raster® System of Braille is supported on Gravograph M40, IS400, IS900, and IS6000/7000/8000 series of engraving solutions by Gravotech.

The Raster® Braille System is a licensed and patented process by Accent Signage Systems, Inc.

RASTER® BRAILLE BENEFITS:

- Easy to read, perfectly rounded, uniform Braille beads.
- Looks great in any material
- Fabrication is fast and easy
- Dome-shaped Raster® beads meet current ADA and ANSI guidelines
- Durable and vandal resistant





GRAVOSTYLE™ SOFTWARE SOLUTION

GravoStyle™ offers a one of a kind braille add-on for Discovery level and above. Our Braille automation solution improves ADA signage production. The machine maintains the offset between the drill in the spindle and the bead insertion device combining the drilling & bead insertion into a single, effortless operation.

GravoStyle™ provides features such as support and design capabilities in 23 languages. Special functions meet specific market needs for engraving, cutting, marking, ablating and annealing processes for CNC rotary and CO2, YVO4 and fiber laser technologies. It is also designed to work together with your current 3rd-party design software while providing powerful engraving specific features.

GRAVOGRAPH™ ROTARY SOLUTIONS FOR ADA BRAILLE

Gravograph M40



Gravograph IS400



Gravograph IS6000 • 7000 • 8000



GRAVOGRAPH™ LASER SOLUTION FOR ADA BRAILLE

Gravograph LS1000XP



Gravotech lasers provide a fast and efficient way to cut tactile lettering for ADA signage and sign substrates like acrylic with flame polished edge.

The new Print & Cut feature in GravoStyle™ allows you to completely cut your digitally printed signs in 4 easy steps.

The Gravograph LS1000XP by Gravotech has an engraving area of 24" x 48" and speeds up to 157 in/sec. The unlimited X & Y pass through and ergonomic front loading door make working with large and bulky materials effortless.

ADA SIGNAGE CUTTERS FROM GRAVOTECH



Profile:

The Profile cutter is used for cutting out tactile lettering and pictograms on the 1/32" profile material. As the material thickness is .032 and has adhesive, your cut depth is .035. This will ensure that you cut thru the adhesive and leave less debris when you weed the excess material.

Raster Drill:

The Raster® Braille cutter is parallel to give you straight sides on your drilled hole. The Raster® bead measures .060. When the bead is pushed in the hole past the half way point, the plastic will snap back and hold the bead in place. Drill depth is between .023 and .025. Dedicated cutters are available for soft plastics, rigid plastics and metals substrates, enhancing Raster® durability.

Inlay:

This cutter is used for making inlay lettering. The cut diameter is .040. The first part of the cutter will support a depth of .035. While the cut hole is parallel, the insert letter's top will be beveled to give you a profile on the letter.

Raised letter profile cutters

For creating raised tactile ADA sign lettering. Top load tools are 6 1/4" length for standard spindle. Bottom load tools are for use with a collet spindle.

Profile cutter 11/64" top load, .010 Tip	45704
Profile cutter 1/4" top load, .010 Tip	45705
Profile cutter 1/4" 2" bottom load	48509

Raster™ Braille drill cutters

Carbide Raster Braille drill cutter - 11/64" for plastic	36396
Carbide Raster Braille drill cutter - 11/64" for acrylic	48507
Carbide Raster Braille drill cutter - 1/8" for plastic	49239
Carbide Raster Braille drill cutter - 1/4" for plastic	36408
Carbide Raster Braille drill cutter - 1/4" - 2" bottom load	48508

Collet drill assemblies

Adapter tool to hold spiral drill bits for metal and acrylic. Intalls in top load spindle like a standard cutter and has a hollow adjustable end to hold the bit. Come with wrench.

Collet drill assembly - 11/64", top load	34327
Collet drill assembly - 1/4", top load	48511
Collet drill assembly - 1/4", bottom load	48512

Drill bits for Collet Drill Assembly:

Carbide drill bit for inserting acrylic Raster™ in metals (brass, aluminum or steel)	48506
Carbide drill bit for inserting metal Raster™ in metals (brass, aluminum or steel)	36423
Carbide drill bit for steel, bottom load (requires 1/8 collet)	47343

Cutters for inlay tactile raised letters

Carbide .040 inlay cutter 11/64", top load	36395
Carbide .040 inlay cutter 1/4", top load	36407

Braille kit/Raster™ insertion tools

Raster™ Braille kit includes Raster™ Pen & License, Manual: How to Create Great Looking Interior Signage, 10,000 clear Raster™ beads, Profile cutter, Raster™ bead cutter, weeding tool & cleaning brush	41714
Raster™ Pen - Semi-automatic hand held Braille insertion tool	36425

Auto-Raster™ Deluxe – Attaches directly to engraver to automatically insert Raster™ beads Replacement for 36421	48008
Auto-Raster™ spring upgrade for 36421 (pre-2007 Auto-Raster)	48009
ADA interior signage manual with CD-ROM	33642
ADA interior signage manual with CD-ROM (upgrade)	48510
ADA Automation Kit for IS400 and IS7000/8000 Large Tables (requires UCB version controller with '-11' s/n) - Raster™ pen sold separately	61925
ADA Automation Kit for IS900	65245
STD Spindle Holder Kit	23693

Precision Raster™ Spheres for Braille

Clear Raster™ (10,000 beads)	35665
White Raster™ (10,000 beads)	35666
Black Raster™ (10,000 beads)	35664
Stainless Steel Raster™ (1,000 beads)	35684

Tape and Supplies for Braille Sign Making

Low tack pre-mask tape (1.25" x 100 yds) (31.75 mm x 91.4 m) - For Raster™ Braille adhesive assist method to insert Rasters™ into metal, Corian, marble, wood, etc. This is a pre-mask tape applied to the sign prior to drilling raster holes. This narrow size is the preferred size.	48495
Low tack adhesive pre-mask tape (4.25" x 100 yds) (107.95 mm x 91.4 m) Same use as 48495 only wider.	35662
926 adhesive tape Glue-on liner for Raster™ Braille adhesive assist method on metal, Corian and other non-porous surfaces. Used in conjunction with low tack tape 1/2" (12.7 mm) x 18 yds	35663
Low tack double-faced tape to secure engraving stock to table	48496
High tack double face cloth tape 1" (25.4 mm) x 25 yds	32807
Weeding tool kit for removing unwanted pieces of tactile letters	36409
Cleaning brush	36411

See page 72 for full line of tapes and adhesives.

Gravotac™ Engraving Material

See pages 23 and 36 for compliant ADA sign substrates.

Laser Metal Marking

TherMark®



TherMark laser marking tape For efficient dry permanent marking

TherMark tape is an ideal product for expanding the range of materials that can be marked with a CO2 laser engraver. Available in a 50ft roll in 3 standard widths (1", 2" & 3" wide), it can be used to create high contrast, permanent black marks on bare, plated and anodized metals. Cut the tape to the size of the mark, then simply apply by hand and engrave with a 30W and above laser. The excess tape is then peeled off to reveal the final mark. This product is suitable for outdoor use.

Description	Part Number
TherMark laserable tape 1" wide	48315
TherMark laserable tape 2" wide	46255
TherMark laserable tape 3" wide	48314



TherMark laser marking spray & pastes Water-based for fast clean up

TherMark liquid pastes allow most metals to be quickly marked using a CO2 laser engraver. A thin coat of material can be painted or sprayed onto the metal, then left to dry for less than 2 minutes. Engrave with your laser of 25W or greater to produce high contrast, permanent black marks. The excess water-based materials can be easily washed off to reveal the final mark.

Description	Part Number
TherMark LMM14 6 oz aerosol spray	47821*
TherMark LMM14 50g liquid paste	47822
TherMark LMM14 250g liquid paste	47823

CerMark®



Cermark laser marking spray & pastes Solvent-based for easy handling before marking

Cermark metal marking pastes also allow most metals to be marked using a CO2 laser engraver. Similar to TherMark liquids, the Cermark products contain a hardener that allows the products to be easily handled prior to marking with your laser. The final result is the same permanent black marks on a range of bare metals. Good for CO2 lasers, 25W and above.

Description	Part Number
Cermark LMM6000 12 oz aerosol spray	31086*
Cermark LMM6000 50g liquid paste	45694*
Cermark LMM6000 250g liquid paste	31085*
Cermark LMM6000 500g liquid paste	50808*
Cermark LMM6000 Paste 1000Gram	77733
LMC-6044P Prem Blk Paste 250g	78262
LMC-6044 Aerosol Prem Blk Paste 50g	78263
LMC-6044P Black Aerosol Spray Glass 12 oz	78264
LMM6151 Copper Metal Mark 50G	80984

CerMark Process: All products work with most uncoated metals. Excellent for metal marking with a CO₂ laser. Read instructions carefully before use.

Caution: these coloring products require special safety measures. Use them in well ventilated rooms only and wear suitable protective clothing and gloves.

* These items are shipped via ground transportation only.

Paint/Color Fills



Engravocolor sticks

For brushless color filling of plastics and base metals. When ordering Engravocolor sticks separately, specify part number and quantity for each color. Sticks are .8 oz.

Color	Part Number
White	32824
Silver	32826
Red	32827
Black	32828
Green	32829
Blue	32830
Yellow	32831
12 assorted - 4 black, 4 white, 1 each of others	32823



Rub N Buff*

For rich looking fills on non-porous surfaces. Excellent engraving color fill for glass. Just dab on, rub in, and buff off excess. Tubs are 1/2 oz.

Color	Part Number
Grecian gold	51675
Silver	51672
Spanish copper	51676
Black	51677

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



Deluxe Paint fill pen

Tool for use in engraving & paint filling. No outside source/compressed air needed. Comes with 4 different easy-to-change tip sizes. A must for engravers who color fill. Ref. 51674



Engravers Enamel*

For filling engraving in metal and plastic. Not recommended for use on Metallex. 1/2 pint cans.

Color	Part Number	Color	Part Number
White	32808	Blue	32814
Orange	32810	Yellow	32815
Red	32811	Almond	32816
Black	32812	Gray	32817
Green	32813		

Oxydizing agents



Gravoxide

Designed to blacken fine engraving on Gravometall. Packaging: 90 ml (3 oz) bottle with application pad. Ref. 32820** - 12 pack* 32821 - single bottle ** GSA accounts only

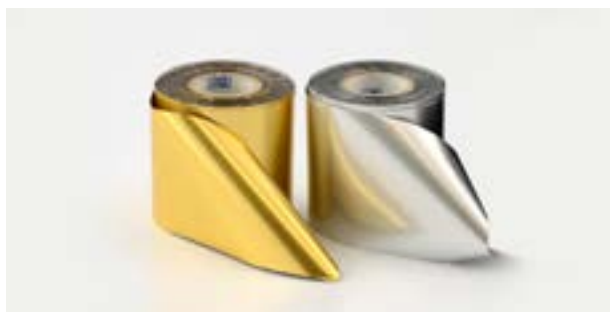


Aloxide

Designed to blacken fine engraving on glossy anodized aluminium. Packaging: 90 ml (3 oz) bottle with application pad. Ref. 32799** - 12 pack* 32800 - single bottle

ArtFoil™

Rolls



silver	72884
gold	72883

To use with the ArtFoil solution for hot-printing. Available in 2 colors. For a glossy finish, use the gold or silver colors. Roll width 50 mm (1.97"), length 61 m (66 yds).



Laser Foil



Solid color 2mm thick mylar tape for laser engraving. Adds color and richness to your laser engraved products. A permanent acrylic adhesive that is great for wood.



Color	Part Number
Black	45887
Blue	45888
Green	45894
Red	45955
Bright Gold	46119
Brushed Gold	46120
Silver	46123



Low Tack Paper Mask

Paper mask designed to protect your engraving from burning and provides clean edges.

Ref. 45897

Lubrication



Tarfil™ AT

Designed for metal engraving. Manual dispensing at cutter tip.

Bottle: 215 g (7.58oz)

Ref. 19526



Vargol

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

Volume: 500 ml (16.9oz)

Ref. 21780



Vectolub™ lubricant oil

For non ferrous metal engraving. Automatic dispensing with IS Spray Mist lubricating device.

Volume: 2 LTR (67.6oz)

Ref. 23494



Engravolube

Special engraving lubricant which will prolong the life of the cutting tool and help to produce a clean & smooth cut.

Bottle: 95.8 g (8.00 oz)

Ref. 32819

Cleaning



Laser optics cleaner

This kit will enable you to maintain and remove fumes and back-splattered debris to minimize the absorption and excessive heat load, thus prolonging the optics lifetime.

Description	Part Number
Lens cleaner - 1 3/4 oz	30858
Lens tissue - 50 qty	30859
Laser cleaning swabs - 10 qty	30864

Glues



Gravo-Bond
Bonds plastic or metal to any surface. Use just a drop and it sets in 10 seconds. Gravo-Bond is a non-solvent based adhesive.
Bottle: 28.3 g (1 oz)
Ref. 36230



New-Hermes cement*
For bonding plastics or metal to any surface. Brown cement is specially formulated to use with phenolic.

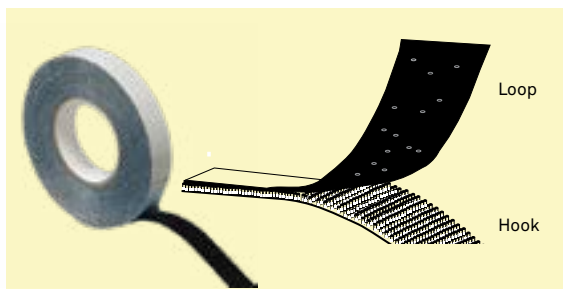
Description	Part Number
Clear cement - 1 pint can	48700
Brown cement - 1/2 pint can	72010
Bond acrylic - 1 pint can	36236

Caution: It is extremely importance to apply tape or glues on clean surfaces to get perfect adhesion.

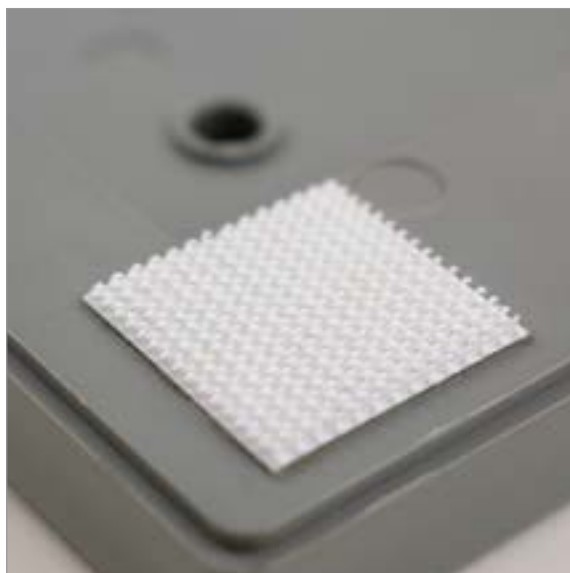
Sign Fasteners

Hook and loop tape fastener

Nylon hook and loop with rubber-based adhesive backing.
Permits easy sign changeover.



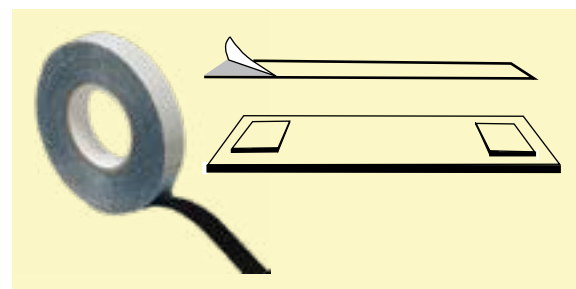
Description	Part Number
1" x 3" (set of 12) - White	36233
1" x 3" (set of 12) - Black	35781
3/4" x 5 yards (roll) - White	36234
3/4" x 5 yards (roll) - Black	35782



Magnetic Strip

Flexible, permanently magnetized strip with premium quality, all-weather adhesive.

.060" magnetic strip with pressure-sensitive adhesive



Description	Part Number
1/2" x 100 ft	36203
3/4" x 100 ft	36204
1" x 100 ft	36205
1" x 24" x 1/16"	36227



Tapes & adhesives



Exterior double-coated foam tape

Cross-linked, closed cell white polyethylene foam coated with high tack, high shear acrylic adhesive system. Good chemical and fuel resistance. Adhesive performance is excellent for mounting applications. Use to attach signage to non-smooth exterior surfaces and to construct signage elements with insert windows.

Exterior foam tape - acrylic-based adhesive

Description	Part Number
1/32" x 1" x 72 yards - White	36245
1/32" x 1/2" x 72 yards - White	36243
1/16" x 2" x 36 yards - White	36320
1/16" x 1" x 36 yards - White	36246
1/16" x 1/2" x 36 yards - White	36244
1/32" x 3" x 36 yards - White	36323
1/32" x 2" x 36 yards - White	36322
1/32" x 1/4" x 36 yards - White	36237
1/32" x 1/2" x 18 yards - White	36223

Exterior double-coated film tape

For applications where extreme temperatures and environmental considerations are essential. Excellent bond to vinyls, dead load acrylic adhesive coated on both sides of polyester files. Use to attach signage on smooth exterior surfaces and to assemble signage elements. This product is ideal for applying metal or plastic sheets to award plaques that will be placed in humid areas or areas that experience temperature changes.

Exterior film tape - acrylic-based adhesive

Description	Part Number
Acrylic film tape 3" x 36 yards	36326
Acrylic film tape 2" x 36 yards	36325
Acrylic film tape 1" x 36 yards	36220
Acrylic film tape 1/2" x 36 yards	36232
Acrylic film tape 6" x 18 yards	36327
Acrylic film tape 12" x 18 yards	36328

Interior double-coated foam tape

Cross-linked, closed cell polyethylene foam coated with high tack, high shear synthetic adhesive system. Good chemical and fuel resistance. Adhesive performance is excellent for mounting applications. Use to attach signage rough interior surfaces and as spacer to assemble signage with insert windows.

Interior foam tape - rubber-based adhesive

Description	Part Number
1/32" x 1" x 72 yards - White	36240
1/32" x 1/2" x 72 yards - White	36241
1/32" x 1" x 72 yards - Black	35783
1/32" x 1/2" x 72 yards - Black	35784
1/16" x 1" x 36 yards - White	36242
1/32" x 1" x 18 yards - White	36216
1/32" x 1/2" x 18 yards - White	36217
1/32" x 1" x 18 yards - Black	35780
1/16" x 1" x 18 yards - White	36218

Interior double-coated film tape

Film coated on both sides with an aggressive rubber-based pressure-sensitive adhesive system. Use to attach signage on smooth interior surfaces and to assemble signage elements. This product is ideal for applying metal or plastic sheets to award plaques.

Interior film tape - rubber-based adhesive

Description	Part Number
1/2" x 36 yards	36213
1" x 36 yards	36214
2" x 36 yards	36330
3" x 36 yards	36331
6" x 18 yards	36332

Interior paper tape

A 3.5 mm impregnated crepe paper coated on both sides with high quality synthetic adhesive system. For use in applications where tensile strength and additional thickness are needed for bonding and laminating or holding. Excellent for plate mounting. Economical adhesive tape for mounting metals and plastic plates to plaques and awards. Commonly used to stick sheets to the laser or engraving bed to reduce or prevent material bowing or slippage during the engraving process.

Interior paper tape - rubber-based adhesive

Description	Part Number
1/2" x 36 yards	36210
3/4" x 36 yards	36211
1" x 36 yards	36212

Adhesive sheets

Lightweight paper stock coated on each side with aggressive rubber-based adhesive. Each adhesive layer is protected by a release-coated liner. Recommended for mounting on flat surfaces. Ideal for applying adhesive backing to engraving sheet stock.

Description	Part Number
12" x 12-1/2" sheets (package of 10)	36219

Adhesive backing service

We can apply adhesive backing to badges, nameplates, strips and material sheets. Adhesive backing is applied before cutting material. Our adhesives are compatible for indoor and outdoor use.



Adhesive type	Main applications	Substrate finish	Long-term T°C > 24h
9502	Fixing of industrial labels, front panels, signs and personalisation plates on metals and plastics	Smooth	-40°C +150°C (-40°F +302°F)
467MP	Fixing of industrial labels, front panels, signs and personalisation plates on metals and plastics	Smooth	-40°C +150°C (-40°F +302°F)

Caution before use:

Clean any grease marks from the substrate before sticking the plate. As glue reaches full adhesion capacity after 24h, it is advised not to move the plate before then

Gravogrip™

Flexible material placed on your engraving /marking table to maintain the material to be engraved or cut into place.

** For IM4, M20, IS200 & M40 use a support table, see p.15.

Choose the size that will best suit your machine's working area.



78056	Full sheet 1220 x 610 mm (48" x 24")
67252	610 x 610 mm (24" x 24")
71052	610 x 305 mm (24" x 12")
45696	310 x 215 mm (12".20 x 8.46")
71053	305 x 200 mm (12" x 7.87")
71054	225 x 80 mm (8.85" x 3.15")
70996	120 x 100 mm (4.72" x 3.93")
72027	120 x 80 mm (4.72" x 3.15")
71056	cut-to-size on request

Minimum maintenance

- Cleaning with soapy water

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com



Legend Plates

The safe, effective way to label push-buttons, selector switches or indicator lights. All Gravoply and Gravoply Ultra legend plates are non-conductive. We are able to manufacture custom legend plates based on your specifications. Please request a quotation.

$1 \frac{3}{16}$ " diameter holes 

Fits full-size pilot lights and push buttons of all U.S. manufacturers, as well as many of the foreign-made oiltite units.



1 3/4" W x 2" H Universal		
Color	Gravoply	Gravoply Ultra
White/Black	35634	46020
Black/White	35738	46000
Red/White	35845	46011
Yellow/Black	45991	46031



1-3/4" W x 2" H Universal with lock tab		
Color	Gravoply	Gravoply Ultra
White/Black	35632	46018
Black/White	35736	45998
Red/White	35843	46009
Yellow/Black	45989	46029

$7/8$ " diameter holes

(.875) fits miniature button and pilot lights.



1-3/8" W x 1-5/8" H Universal		
Color	Gravoply	Gravoply Ultra
White/Black	35640	46025
Yellow/Black	45996	46027

$1 \frac{1}{16}$ " diameter holes

Fits major lines of miniature lights - electrical and electronic.



1-3/8" W x 1-3/8" H Universal		
Color	Gravoply	Gravoply Ultra
Yellow/Black	45987	45969



1-3/8" W x 1-3/8" H Universal		
Color	Gravoply	Gravoply Ultra
Yellow/Black	45986	45985

Anodized Aluminum Legend Plates

$1 \frac{7}{32}$ " Universal

Manufactured to accommodate all standard oiltite lights and push buttons.



1-3/4" W x 2" H	
Color	Part Number
Red Anodized	35864
Black Anodized	35778

$1 \frac{7}{32}$ " diameter holes 

Fits full-size pilot lights and push buttons of all U.S. manufacturers, as well as many of the foreign-made oiltite units.



1-3/4" W x 2" H Universal with lock tab		
Color	Gravoply	Gravoply Ultra
White/Black	35633	46019
Black/White	35737	45999
Red/White	35844	46010
Yellow/Black	45990	46030



1-13/16" W x 1-13/16" H Universal notched		
Color	Gravoply	Gravoply Ultra
White/Black	35635	46017
Black/White	35739	45997
Red/White	35846	46008
Yellow/Black	45988	46028



1-3/4" W x 1-7/8" H Universal with lock tab		
Color	Gravoply	Gravoply Ultra
White/Black	35631	46024
Black/White	35735	46005
Yellow/Black	45995	46035



1-3/4" W x 2" H Universal		
Color	Gravoply	Gravoply Ultra
White/Black	35636	46023
Black/White	35740	46003
Red/White	35847	46014
Yellow/Black	45994	46032



1-3/4" W x 2" H Universal with lock tab		
Color	Gravoply	Gravoply Ultra
White/Black	35637	46022
Black/White	35741	46002
Red/White	35848	46013
Yellow/Black	45993	46034






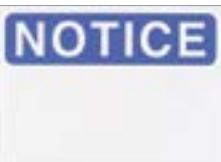
1 3/4" W x 2" H Universal with lock tab		
Color	Gravoply	Gravoply Ultra
White/Black	35638	46021
Black/White	35742	46001
Red/White	46012	46012
Yellow/Black	45992	46033

Ready-to-engage OSHA Signs 

Rotary

Standard OSHA signal word signs are ready to engrave with your customer's specific message. Our seven signal word signs are silk-screened on 1/16" 2-ply Gravoply material. Recommended for interior use.





 <p>DANGER</p> <p>(Engrave Here)</p>	Size	Part Number		 <p>WARNING</p>	Size	Part Number		 <p>CAUTION</p>	Size	Part Number	
	2-7/8" x 4"	35641			2-7/8" x 4"	35928			2-7/8" x 4"	35825	
	7" x 10"	35642	68972*		7" x 10"	35929	68973*		7" x 10"	35826	68974*
	10" x 14"	35643		10" x 14"	35930		10" x 14"	35827			

 <p>NOTICE</p>	Size	Part Number		 <p>SAFETY FIRST</p>	Size	Part Number	
	7" x 10"	35647	68975*		7" x 10"	35904	68976*
	10" x 14"	35648					

* Reference numbers for quantity of 10 or more.

Lockout tags

Durable Gravoply® 3C lockout tags with area on both sides for engraving important messages. Both tags measure 3-1/4" x 5-5/8".

		<p>DANGER 35852 Sold in packages of 5.</p>			<p>DANGER EQUIPMENT LOCKOUT 35859 Sold separately.</p>
Front	Back		Front	Back	

Key tags


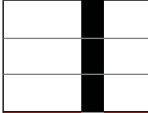



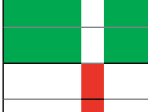




Color	Size	Part Number
A. Yellow/Black diamond key tag	1-1/2" x 2-1/4"	35824
B. Blue/White diamond key tag	1-1/2" x 2-1/4"	35799
C. Red/White diamond key tag	1-1/2" x 2-1/4"	35839
D. Blue/White teardrop key tag	1-3/4" x 2-5/8"	35801



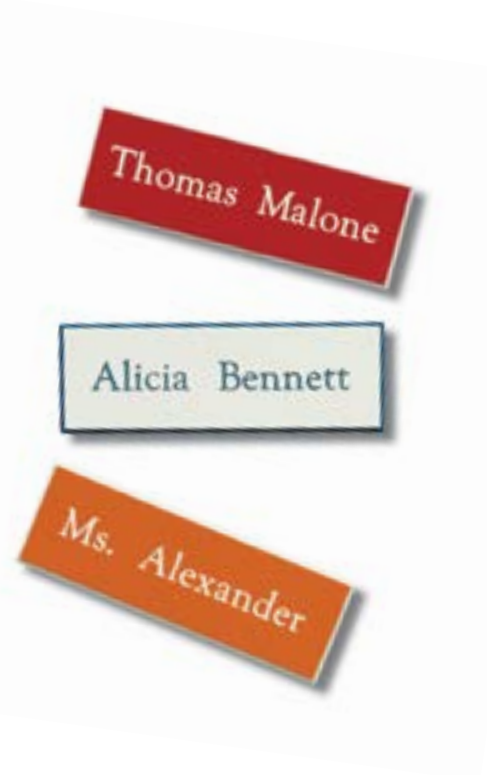
Ready-Made Badges

There's more than one way to buy a badge. Ready-made badges save you time and money. Custom badges keep all your customers satisfied, no matter how specialized their badge needs may be.

Classic 3/32" Gravoply badges (satin finish)

	Color	Size	Safety Pin	Clutch	Qty of 50
	Black/White	5/8"x2-1/2"	35520	-	
		3/4"x3"	35523	19393	
		1"x3"	35526	35527	
	White/Black	5/8"x2-1/2"	35487	-	68962*
		3/4"x3"	35488	35489	
		1"x3"	35491	35492	68963*
	Red/White	5/8"x2-1/2"	35553	-	
		3/4"x3"	35554	35555	
		1"x3"	35557	35558	
	Azure Blue/White	5/8"x2-1/2"	35540	-	
		3/4"x3"	35541	35542	
		1"x3"	35544	35545	
	White/Blue	5/8"x2-1/2"	35502	-	
		3/4"x3"	35504	-	
		1"x3"	35506	35507	
	Apple Green/White	3/4"x3"	35566	-	
		1"x3"	35568	-	
	White/Red	3/4"x3"	35496	-	
		1"x3"	35498	-	
	Orange/White	1"x3"	35576	-	
	Walnut/White	1"x3"	35614	-	
	Silver Gray/Black	1"x3"	35571	-	

*68962 includes safety pin and 68963 includes clutch.



1/16" Light weight Line

	Color	Size	Part Number
	Black/White	1"x3"	35532
	White/Black	1"x3"	35495
	Red/White	1"x3"	35561
	Azure Blue/White	1"x3"	35549
	Burgundy/White	1"x3"	35564
	Silver Gray/Black	1"x3"	35573

Safety pin back



Clutch back








Ready-Made Badges

Military Badges

Plastic for rotary engraving

These badges have been created specifically to meet the requirements of each branch of the military, regulation colors and sizes. Each is made from 3/32" Gravoply 1 with feature clutch fasteners (included).

Color	Size	Branch	Part Number	Qty of 50
 Satin Black/White	1"x3"	Army	35527	68955
 Satin Black/White	3/4"x3"	Navy	19393	68956
 Satin Air Force Blue/White	5/8"x3-3/16"	Air Force	35537	68957
 Matte Black/White	5/8"x3"	Marine Corps	35521	68958
 Textured Black/White	1"x3"	Military	35518	68959



Metal for rotary engraving

The premium and value United States Air Force dress uniform badges. With overall dimensions of 3/4"x3", these badges are constructed of a .25" silver nickel-plated brass shell (premium) or silver nickel shell (value) that wraps around an attaching plastic insert, as specified by the US Air Force. The attaching hardware on the plastic insert is prong and clutch type. Each unit is sold with the adhesive-backed plastic back unattached to the shell to simplify the engraving process. Clutch hardware is included.

For this specific badge, the USAF requirements dictate the engraving be done with a .030" or .040" tip cutter. (We recommend a .030" tip cutter, sold below, engraved to a depth of .008" to .010"). The text must be all in capital letters, and be 1/4" in height. The font used must be standard block or SL513 Portuguese font. As specified by the USAF, the text on the badge is to be engraved and paint-filled with a specific blue engraving enamel, purchased separately (see below).



Premium USAF Name Tag 35604 Front



Value USAF Name Tag 66424 Front



Back





Description

	Size	Part Number	Qty of 50
USAF Premium uniform name tag (brass)	3/4"x3"	35604	68960*
USAF Value dress uniform name tag (nickle)	3/4"x3"	66424	68961*
Brass cutter for 11/64" shank	.030" tip	34028	
Blue engravers enamel	1/2 pint	32814	
Paint-fill squeegee tool		36226	

*Kit includes 34028, 32814, 36226


Plastic for laser engraving

Each of these 3/32" Gravoply Ultra badges also meet the requirements of the specified military branch, but are designed specifically for laser engraving. All badges feature prong and clutch attaching hardware.

Color	Size	Branch	Part Number	Qty of 50
 Satin Black/White	1"x3"	Army	35528	68964
 Satin Black/White	3/4"x3"	Navy	35524	68965
 Satin Air Force Blue/White	5/8"x3-3/16"	Air Force	35538	68966
 Matte Black/White	5/8"x3"	Marine Corps	35522	68967



Ready-Made Badges

Gravoply slip-on pocket badges 

Designed to slip on over the top-edge of pockets and stay tightly in place. Bottom edge has rounded corners to protect clothing. Overall size: 3"x2-1/2". Name plate area, 3"x1-1/4". Not beveled.


Color	Part Number
Black/White	35531
White/Black	35494
Red/White	35560
White/Red	35500
Azure Blue/White	35548
White/Azure Blue	35509
Radiant Gold/Black	35581

Metallex badges



The look of metal, but not the cost. Metallex badges are 50% lighter than brass. 3/16" radius rounded corners.

Color	Size	Safety Pin	Clutch
Glossy Gold/Black	5/8"x2-1/2"	35578	-
	1"x3"	35579	35580
Radiant Gold/Black	1"x3"	35582	-
Radiant Silver/Black	5/8"x2-1/2"	35597	-
	1"x3"	35598	-

Brass 

Top quality .050" solid brass badges. Made in USA.

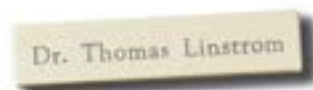
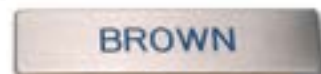
Sandblast finish (do not use Gravoxide)

Color	Size	Safety Pin	Clutch	Qty of 50
Silver	1/2"x2-3/8"	-	35612	-
Glossy Gold (with cut corners)	1-3/16"x2-3/8"	48299	-	-

Classic Rectangle (1/16" radius rounded corners)

Color	Size	Safety Pin	Clutch	Qty of 50
Glossy Gold	3/8"x2-1/4"	35588	35589	
Glossy Gold	1/2"x2-3/8"	35590	35591	68968*
Glossy Gold	5/8"x2-1/2"	-	35592	
Satin Gold	1/2"x2-3/8"	35585	35586	68969*

*Reference for orders of 50 or more. Includes clutch back only.



Metal Badge Frames & Magnets

Plastic for rotary engraving

Similar to the badge frames, but with slightly larger dimensions and upgraded finishes. The gold badges are actually 18K gold-plated, and the silver badges are plated with stainless steel. Since they both have a solid steel core, magnets adhere directly to the body of the badge, with no need for a pressure-sensitive steel plate. Sold with or without pin back fasteners. Both sizes offer round corners. Plain frames do not include fasteners, and can be used with the magnetic clips sold below. Insert material must be 1/32" thickness only.

3-line deluxe badge

Frame size: 1-5/8"x2-15/16"

Insert size: 1-3/8"x2-3/4"

1/8" radial corners

Description	Part Number
Plain Gold (frame only)	35617
Pin back Gold	35624
Plain Silver (frame only)	35619
Pin back Silver	35625

2-line deluxe badge

Frame size: 1-1/8"x3-1/8"

Insert size: 29/32"x2-29/32"x1/32"

1/8" radial corners

Description	Part Number
Plain Gold (frame only)	35616
Pin back Gold	35622
Clutch back Gold	35623
Plain Silver (frame only)	35618
Pin back Silver	35628

Metal badge frames

Engrave before mounting in frames.

Materials not included; frame only.

Material must be 1/32" thickness only.

Square corners

Frame size: 11/16"x2-11/16"

Insert size: 1/2"x2-1/2"x1/32"

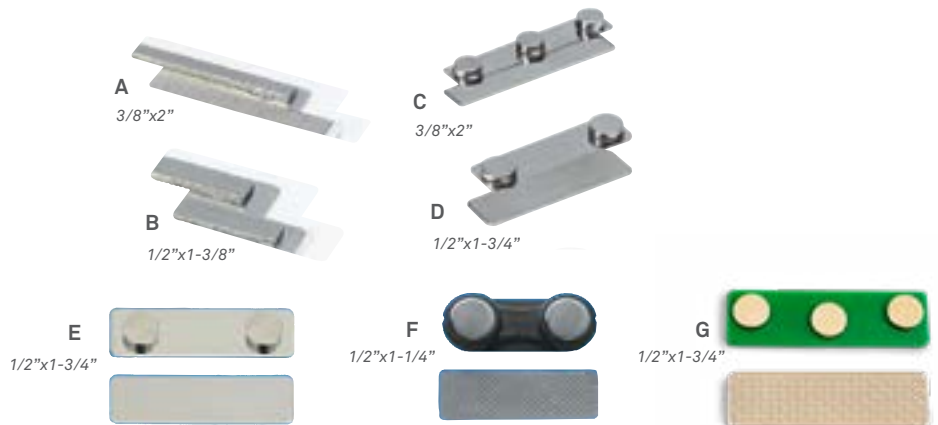
Description	Part Number
Goldtone w/ pin back	35620
Silvertone w/ pin back	35626
Goldtone w/ clutch back	35621
Silvertone w/ clutch back	35627

Magnetic closures

The following items are listed in ascending order of magnetic strength.

Description	Part Number
A. Single magnetic clip	36119
B. Double magnetic clip	36118
C. Triple post magnetic clip	36113
D. Double post magnetic clip	36112
E. Economy badge magnet	36109
F. Mini poly badge magnet	36111
G. Poly badge magnet	81255

All magnetic closures come with the pressure-sensitive adhesive backing.

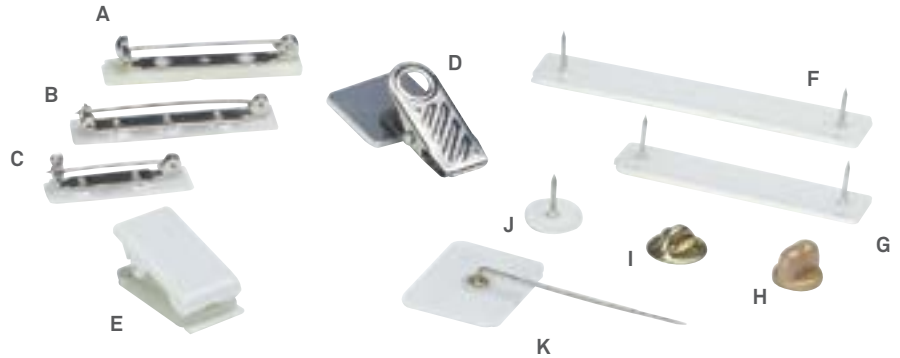


Badge Hardware

Pressure-sensitive hardware

We offer our best-selling and new hardware with pressure-sensitive adhesive backing. Simply peel back the liner, and the adhesive bonds to the badge blank without chemical or heat fusing.

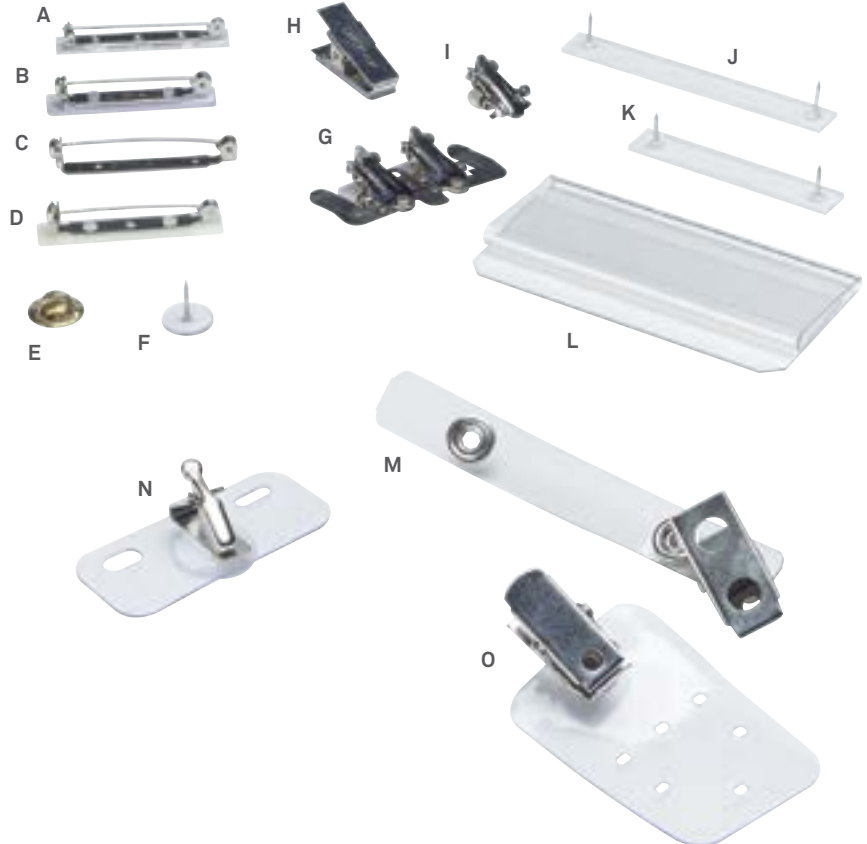
Description	Part Number
A. 1-1/2" clear pin (steel) with ABS base	36103
B. 1-1/2" safety pin (silver)	36104
C2. 1" safety pin (silver)	36099
D. Swivel metal bulldog clip	36106
E. Super clip	36117
F. 2-3/4" ribbon bar	35689
G. 2" ribbon bar	35691
H. Synthetic clutch (pack of 100)	35970
I. Brass clutches	19351
J. Badge tack	35687
K. Drapery pin	36102



Classic badge hardware

Hardware is nickel-plated brass. Features clear plastic backing to make bonding quick and easy without GravoBond (see adhesive). Anti-tarnish finish protects fabric from discoloration. Choose the material color, ply and thickness for fabricating badge blanks.

Description	Part Number
A. 1" safety pin (white)	36090
B. Brass safety pin import (pack of 100)	19345
C. Safety pin for Phenolic only with no plastic backing (not shown)	36071
D. Metal safety pin USA (not shown)	36089
E. Brass clutches	19351
F. Tacks	35686
G. Snap clip w/ plastic back	30361
H. Metal bulldog clip for badge blanks 1" or higher	36092
I. Swivel clip w/ plastic back	19346
J. 2-3/4" plastic ribbon bar	35688
K. 2" plastic ribbon bar	35690
L. Clear acrylic badge holder	35693
M. Spring clip with 3-1/2" Photo ID strap (pack of 100)	36100
N. Badge adapter w/ alligator clip	36097
O. Adapter w/ pearlized snap and spring clip (pack of 100)	36252



Key Chains

All keychains are metal or are combined with leather. A select few have Swarovski® Crystals or light up features. Keychains can be rotary diamond, or CO2 laser (with TherMark).



1-3/4" W x 2-5/8" H
62497



1-1/8" W x 3-1/2" H
62508

4 tools: knife, bottle opener, flat & Phillips screw drivers



1" W x 3-5/8" H
62559



1-3/8" W x 3-3/8" H
62567



1-3/8" W x 3-3/8" H
62517

Flip Open Picture Frame with Mirror



1" W x 3-1/8" H
62534



1" W x 3-3/8" H
62524



3/4" W x 4" H
62554



7/8" W x 3-1/2" H
62500



1" W x 2-1/2" H
62551



1-5/8" W x 1-5/8" H
62497



1-1/2" W x 3-5/8" H
62501

62520



1-1/2" W x 3-5/8" H
62503



1-1/4" W x 3-3/8" H
62528



1" W x 2-1/4" H
62529



1-1/4" W x 3" H
62536



1-3/8" W x 3-3/8" H
62586



1-3/8" W x 2" H
62518



1-3/8" W x 2" H
62523



1-3/8" W x 2" H
62522



1-3/8" W x 2" H
62520



1-3/8" W x 2" H
62521



3.4" W x 1.15" H
Silver - 30132
Gold - 30133



3.15" W x 1.15" H
Silver - 30134
Gold - 30135

Premium solid brass door plates



All door plates have a varnished surface to protect against oxidation.
All door plates, except model 22095, are delivered with screws.



Rectangular with pearls
5 1/8" x 1 1/4" x 3/16" (Imported)
22092



Rectangular with edge ribbon and cut corners
3 1/4" x 1 1/16" x 2/16" (USA)
22095



Rectangular plain
6 1/4" x 2 6/16" x 1/16" (USA)
22094



Fantasy, plain small
3 3/4" x 1 4/16" x 3/16"
22093



Fantasy, plain large
4 5/8" x 1 5/8" x 1/8"
22096



Rectangular, plain with cut corners
4 2/16" x 1 9/16" x 1/16" (USA)
21812



Oval, fantasy
3 7/16" x 2 1/16" x 2/16" (USA)
22090



Oval with twisted edging
1 3/8" x 2 9/16" (USA)
22089



Oval with edging ribbon
4" x 2 2/16" x 2/16" (USA)
22088



Oval plain
5 5/16" x 2 1/2" x 2/16" (USA)
22091



Antiqued brass rectangle plate
2 9/16" x 1" x 1/32"
36005



Brass plate
2 1/16" x 9/16" x 1/32" -
Fits walnut desk organizer
36003



Brass rectangle plate
3" x 1 15/16" x 1/32" - 36015
1 7/8" x 7/8" x 1/32" (not shown)
36016



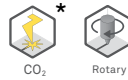
R. Brass rectangle plate
3" x 7/8" x 1/32"
36004



Brass plate
2" x 13/16" x 1/32"
36000



Premium door plates



Brass rectangle plate
3" x 1 1/16" x 1/32"
35936



Brass plate for standard photo plaque
4 13/16" x 1 7/8" x 1/32"
36001



Brass rectangle plate
2 1/4" x 5 5/8" x 1/32"
36021



Standard door plate
Rectangle 1-1/4"x3"
35957



Brass oval plate with faux brads
1 15/16" x 1 13/16" x 1/32"
36014



Hand polished brass
Oval 3-1/6"x11"
(Imported)
36017



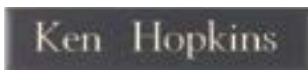
Brass heart plate
1 7/8" x 1 13/16" x 1/32"
35938



Hand polished brass
Oval 3-3/8"x2-9/16"
35958



Hand polished brass
Oval 2-5/8"x5-5/16"
36018



Matte black brass plate
2" x 7/16" x 1/32"
35776



Silvertone aluminum oval plate
2" x 13/16" x 1/32" imported
36137



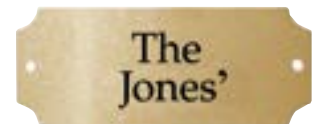
AlumaMark® round plate
Satin Brass 2" diameter - 45875*
Satin Silver 2" diameter. (not shown) - 45886*



Classic ornamental plates
(include brads for mounting)
5" x 13/16" x 1/32" - 35955
2 1/8" x 1/8" x 1/32" (not shown) - 35951
2 1/2" x 7/16" x 1/32" (not shown) - 35952



AlumaMark® notched ornamental plate
Satin Brass 2 1/2" x 15/16" x 1/32" - 45876*
Satin Silver 2 1/2" x 15/16" x 1/32" (not shown) - 45882*



AlumaMark® notched ornamental plate
Satin Brass 2 1/2" x 1 1/8" x 1/32" - 45877*
Satin Silver 2 1/2" x 1 1/8" x 1/32" (not shown) - 45883*

Call 1.800.843.7637 to order or visit www.gravostoreUSA.com



Anodized aluminum range



A complete range of: 18 shapes, 10 colors, 180 models, packaged by 10 or 50.

Compatible engraving technologies: laser engraving, rotary engraving, diamond marking.



Anodizing process may produce slightly different colors from one batch to another. Printed colors for indication only.



	Pack of	silver	gold	blue	light blue	red	green	purple	orange	pink	black
A	10	69285	69286	69287	69288	69289	69290	69291	69292	69293	69294
	50	69479	69480	69481	69482	69483	69484	69485	69486	69487	69488
B	10	69295	69296	69297	69298	69299	69300	69301	69302	69303	69304
	50	69489	69490	69491	69492	69493	69494	69495	69496	69497	69498
C	10	69375	69376	69377	69378	69379	69380	69381	69382	69383	69384
	50	69569	69570	69571	69572	69573	69574	69575	69576	69577	69578
D	10	69385	69386	69387	69388	69389	69390	69391	69392	69393	69394
	50	69579	69580	69581	69582	69583	69584	69585	69586	69587	69588
E	10	69305	69306	69307	69308	69309	69310	69311	69312	69313	69314
	50	69499	69500	69501	69502	69503	69504	69505	69506	69507	69508
F	10	69315	69316	69317	69318	69319	69320	69321	69322	69323	69324
	50	69509	69510	69511	69512	69513	69514	69515	69516	69517	69518
G	10	69355	69356	69357	69358	69359	69360	69361	69362	69363	69364
	50	69549	69550	69551	69552	69553	69554	69555	69556	69557	69558
H	10	69265	69266	69267	69268	69269	69270	69271	69272	69273	69274
	50	69459	69460	69461	69462	69463	69464	69465	69466	69467	69468
I	10	69275	69276	69277	69278	69279	69280	69281	69282	69283	69284
	50	69469	69470	69471	69472	69473	69474	69475	69476	69477	69478
J	10	69425	69426	69428	69429	69430	69431	69432	69433	69434	69435
	50	69619	69620	69621	69622	69623	69624	69625	69626	69627	69628
K	10	69436	69437	69438	69439	69440	69441	69442	69443	69444	69445
	50	69629	69630	69631	69632	69633	69634	69635	69636	69637	69638
L	10	69395	69396	69397	69398	69399	69400	69401	69402	69403	69404
	50	69589	69590	69591	69592	69593	69594	69595	69596	69597	69598
M	10	69405	69406	69407	69408	69409	69410	69411	69412	69413	69414
	50	69599	69600	69601	69602	69603	69604	69605	69606	69607	69608
N	10	69365	69366	69367	69368	69369	69370	69371	69372	69373	69374
	50	69559	69560	69561	69562	69563	69564	69565	69566	69567	69568
O	10	69345	69346	69347	69348	69349	69350	69351	69352	69353	69354
	50	69539	69540	69541	69542	69543	69544	69545	69546	69547	69548
P	10	69415	69416	69417	69418	69419	69420	69421	69422	69423	69424
	50	69609	69610	69611	69612	69613	69614	69615	69616	69617	69618
Q	10	69335	69336	69337	69338	69339	69340	69341	69342	69343	69344
	50	69529	69530	69531	69532	69533	69534	69535	69536	69537	69538
R	10	69325	69326	69327	69328	69329	69330	69331	69332	69333	69334
	50	69519	69520	69521	69522	69523	69524	69525	69526	69527	69528

Ball chains

Choose the chain to match your medal or mix colors! 10 colors available.



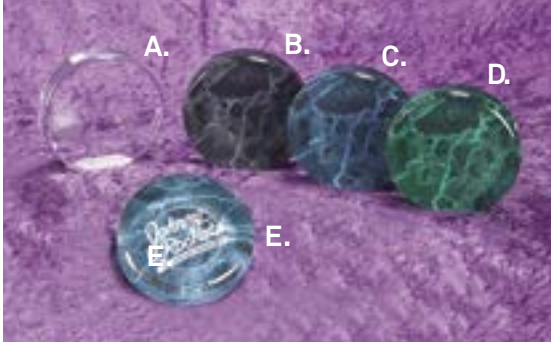
	Pack of 10	Pack of 50
silver	69880	69881
gold	69883	69884
blue	69446	69639
red	69447	69640
green	69448	69641
purple	69449	69642
orange	69450	69643
pink	69451	69644
black	69452	69645
white	69453	69646

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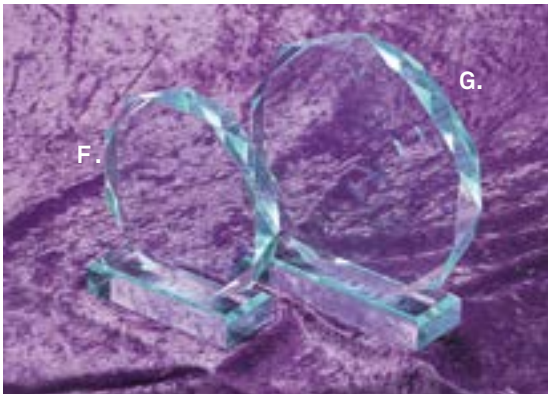
Marble Awards

Choose from 3 marble colors or clear
 Available as 4" dome paper weights, or 5" freestanding circular award
 Leave engraved images frosted or color-filled for extra impact



Circular Marble Awards	Free-standing design 5" diameter, 1" thick
A. Clear	35717
B. Black Marble	35718
C. Blue Marble	35719
D. Green Marble	35720
Dome Marble Paperweights	Designed to lay flat 4" diameter, 1" thick
E. Blue marble	35715
Green marble (not shown)	35716

Acrylic Awards



Jade faceted octagon acrylic features 1" base

Clear Awards	Free-standing design 1" thick
F. Small jade octagon	5-3/4"W x 5-3/4"H 35724
G. Large jade octagon	7-1/2"W x 7-1/2"H 35725
H. Acrylic prism award Small prism Large prism	3/4" thickness 5"W x 8"H 35706 6"W x 10"H 35707
I. Faceted small octagon award	1" thickness 35704
J. Rectangle Glass Plaque	82164



Solid 1" base
Extremely durable



Brass Plates

Brass Plates	Ref	Laser Details
Medium brass plate 3"W x 1"H	51093	Speed: 50% Power: 100%
Large brass plate 4 1/2"W x 1 1/2"H	51092	Notes: May need to tape down when engraving *speed and power are based on a 30 watt CO2 laser



Marble Award Plaques

Choose from wood grain or marble finish. All are created with laserable foils (not laminated paper) for the greatest quality and durability.

The laserable wood grain plaques simulate a solid walnut plaque with a deep cherry stain, and are available with or without a solid black edge border.

The marble finish plaques are constructed with a concave edge, and available in black, white, red or deep blue. Each of the marble finish plaques is available with or without an attractive gold trim border.

Thickness for all award plaques is 5/8".



Concave Edge

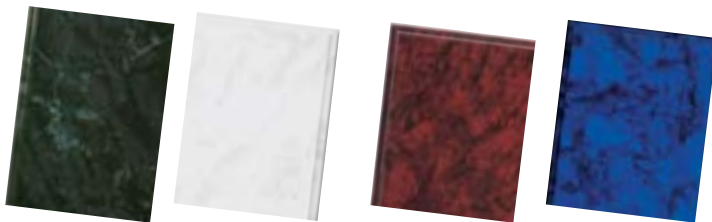


Bevel Edge



Marble with Gold & Concave Edges

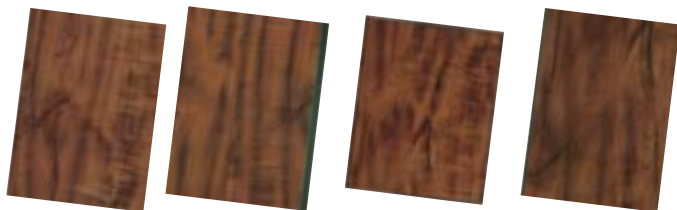
Black Marble w/ Gold	White Marble w/ Gold	Red Marble w/ Gold	Deep Blue Marble w/ Gold	Size	Qty/Cs
36601	36613	36619	36607	6" x 8"	40
36602	36614	36620	36608	7" x 9"	30
36603	36615	36621	36609	8" x 10"	24
36604	36616	36622	36610	9" x 12"	16
36605	36617	36623	36611	10 1/2" x 13"	12
36606	36618	36624	36612	12" x 15"	12



Marble with Concave Edge

Black Marble	White Marble	Red Marble	Deep Blue Marble	Size	Qty/Cs
36569	36641	36633	36625	4 1/4" x 6"	72
36570	36642	36634	36626	5" x 7"	50
36571	36643	36635	36627	6" x 8"	40
36572	36644	36636	36628	7" x 9"	30
36573	36645	36637	36629	8" x 10"	24
36574	36646	36638	36630	9" x 12"	16
36575	36647	36639	36631	10 1/2" x 13"	12
36576	36648	36640	36632	12" x 15"	12


Wood Award Plaques



Walnut Woodgrain Concave Edge

Walnut Woodgrain Beveled Edge

Walnut w/ Concave Edge	Walnut w/ Black Concave Edge	Walnut w/ Bevel Edge	Walnut w/ Black Bevel Edge	Size	Qty/Cs
36585	36593	36577	36561	4 1/4" x 6"	72
36586	36594	36578	36562	5" x 7"	50
36587	36595	36579	36563	6" x 8"	40
36588	36596	36580	36564	7" x 9"	30
36589	36597	36581	36565	8" x 10"	24
36590	36598	36582	36566	9" x 12"	16
36591	36599	36583	36567	10 1/2" x 13"	12
36592	36600	36584	36568	12" x 15"	12

Assorted Ornaments 



Crystal Ornaments

Ornaments	Part Number	Laser Details
Circle ornament	62999	Jig: ½ corner jig - foam jig Speed: 50% Power: 100% *settings are based on a 40 watt CO2 laser
Foam - jig	63068	
Heart ornament	63000	
Foam - jig	63069	



Christmas Scenes



Ornaments	Part Number	Laser Details
Children Alder	62988	Jig: ½ corner jig - GFL foam Speed: 50% Power: 100% *speed and power are based on a 40 watt CO2 laser
Manager scene	62991	
Bethlehem	62989	
Shepherd and sheep	62990	



Assorted Ornaments Rotary



Double Heart Holiday Ornament
46365



Sliced Log
82226



Sliced Log
82227



Glass Circle
82165



Enamel Snowman
35891



Bronze Sculptured Fireplace
35877



Season's Greetings Enamel
35871



Candy Cane Enamel
35868



Dove Holiday Ornament
46366



Goldtone Snowflake
62680



Moose Scene with Ribbon
62947

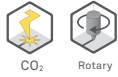


Slate Tree
82237



Slate Heart
82166

Pens



Ball Pen*	Brass Barrel 5.4" l x 0.6" w x 0.4" h
Shiny black with gold trim	62792
Glossy blue with gold trim	62794
Silver with chrome trim	62795



Ball Pen with Gold Trim*	Brass Barrel 5.3" l x 0.5" w x 0.3" h
Glossy blue	62806
Shiny black	62804



Matte Roller Pen*	Brass Barrel 5.4" l x 0.6" w x 0.5" d
Black with gold trim	62814



Mechanical Pencil with Gold Trim*	Brass Barrel 5.2" l x 0.4" w x 0.3" h
Stainless steel	62790
Matte black	62791



Ball Pen*	Brass Barrel 5.3" l x 0.6" w x 0.5" d
Black matte with gold trim	62809



Roller Pen*	Brass Barrel 5.6" l x 0.6" w x 0.5" h
Shiny black with gold trim	62798
Glossy blue with gold trim	62800
Gold with gold trim	62802



A.



B.

Executive Rosewood Color Gift Box*	With 1-2 slots 6.5" l x 3" w x 1.25" h
Burgundy w/ 1 spot	62836
A. Burgundy w/ 2 spots	62837
B. Tin gift box with 2 slots 7" l x 2.1" w x .6" h	62835

*Rotary and laser engravable.



Wooden Pens	Part Number	Laser Details*
Rosewood	51136	Jig: Wood Speed: 50%
Wood jig	51260	Power: 100%



Wooden Pens	Part Number	Laser Details*
Maple	51100	Jig: Wood Speed: 50%
Wood jig	51259	Power: 100%



Black Pens	Part Number	Laser Details*
Black and brass	51104	Jig: Wood Speed: 40%
Wood jig	51248	Power: 100% Notes: 2 passes



Wooden Pens	Part Number
Rosewood	51135
Wood jig	51259



Metal Pens	Part Number
Red	82202
Blue	82203
Black	82204
Grey	82200



Metal Pens with grip	Part Number
Red	82198
Blue	82199
Pink	82201

*speed and power are based on a 30 watt CO2 laser

Corporate Gifts



Standard Money Clip
18 Kt. goldplated brass 3/4" x 2"
35974



Large Money Clip
18 Kt. goldplated brass 1" x 2"
35942



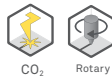
Crystal Candle Holder
2"Wx3¼"H
62984

Pocket Knives



Belt clip knife
2¼" blade
51153

Baking & Kitchen



Pizza Peel
12"W x 18 1/8"H
82218



Bamboo Block
Cutting Board
12"W x 12"H
82206



Slate Cheese
Board
12"W x 12"H
82219



Rolling Pin
12"W x 12"H
82205

Coasters



Circle Slate
Coaster
12"W x 12"H
82141



Tan Faux
Leather Coaster
12"W x 12"H
82139



Cork
Coaster
12"W x 12"H
82140

Drinkware



16 oz, Stainless Steel Travel Mug

Color	Part Number
A. Red travel mug	82167
B. Black travel mug	82168
C. Blue travel mug	82191
D. Pink travel mug	82190



11 oz, Ceramic Mug

Color	Part Number
E. Pink and White ceramic mug	82193
F. Black and White ceramic mug	82192
G. Black and Blue ceramic mug	82195
H. Red and White ceramic mug	82194
I. Black and Red ceramic mug	82196



Call 1.800.843.7637 to order or visit www.gravostoreUSA.com

License Plate Frames



These license frames are designed to hold your engraved plastic inserts. All plastic frames are rotary engravable only.

Plated Zinc Frame



- A. Chrome - **62410** Black - **62414** Brass - **62409**
 Top Center Recess Area: Up to 6-5/16" W x 3/4" H (159.85 mm W x 18.5 mm H) Bottom Recess Area: Up to 10-5/16" W x 15/16" H (261.5 mm W x 23.5 mm H)
- B. Chrome - **62411**
 Top Center Recess Area: Up to 6" W x 7/8" H (151.9 mm W x 22.1 mm H) Bottom Recess Area: Up to 7" W x 7/8" H (178.5 mm W x 22.1 mm H)

2-Ply Metallized Plated Plastic Frame



- C. Chrome - **62428**
 The suggested max. imprint area on the Top rim is 6-1/4" W x 5/8" H The max. imprint area on the Bottom rim is 11" W x 7/8" H
- D. Chrome - **62427**
 The suggested max. imprint area on the Top rim is 11" W x 3/8" H max. imprint area on the Bottom rim is 6-1/4" W x 7/8" H

Zinc Engravable License Frame Models

Chrome plated and black coated zinc alloy license frames are ready for laser engraving, rotary engraving, and diamond etching. Rotary engraving will require an epoxy fill. All metal automotive accessories can be CO2 or YAG laser engraved by using TherMark coating or paste.



- E. Chrome - **62481**
 Max. imprint area on the Top rim of 11" W x 3/8" H | Max. imprint area on the Bottom rim of 11" W x 7/8" H
- F. Black - **62482**
 Max. imprint area on the Top rim of 6" W x 7/8" H | Max. imprint area on the Bottom rim of 11" W x 7/8" H

Brass Engraving License Frame Models



- G. Black Nickel - **62466**
 Max. imprint area on the Top rim of 6" W x 7/8" H | Max. imprint area on the Bottom rim of 11" W x 7/8" H
- H. Chrome Plated Solid Brass - **62450**
 Max. imprint area on the Top rim of 6" W x 3/8" H | Max. imprint area on the Bottom rim of 11" W x 7/8" H

Metal Motorcycle License Frames



- I. Stainless Steel Front Plate - **62591**
 Mirror Polished 800 Stainless Steel Front Plate (12"W x 6"H) | Suitable for Laser Engraving or Diamond Etching.

Hitch Covers and Front Plates

Trailer hitch covers (with either a 2" or a mini 1-1/4" receiver post) and front plates are ready for laser engraving, rotary engraving and diamond etching. Rotary engraving will require an epoxy color fill.



- J. Chrome Plated Oval Emblem & Stainless Steel - **62587**
 2" Receiver Post Oval Emblem Size: 6" W x 3-1/4" H
- K. Chrome Plated Rectangular Emblem & Stainless Steel - **62589**
 2" Receiver Post. Rectangular Emblem Size: 6" W x 3-1/4" H

Frames 



A. Cherry Puzzle Plaque
12"W x 12"H
82231

B. Cherry Puzzle Frame
12"W x 12"H, holds 4"x 6" photo
82232



C. Black Puzzle Plaque
12"W x 12"H
82234

D. Black Puzzle Frame
12"W x 12"H, holds 4"x 6" photo
82233



E. White Faux Wood Puzzle Plaque
12"W x 12"H
82234

F. White Faux Wood Puzzle Frame
12"W x 12"H, holds 4"x 6" photo
82236



G. Black Puzzle Frame Large
22W x 13"H
82156



H. Black Wood Puzzle Frame:
Mr&Mrs Message Engraved
13W x 22"H
82157

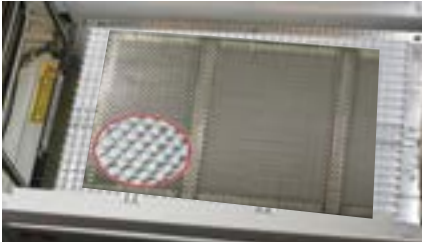


I. Photo Frame
8 3/4"W x 6 3/4"H, holds 4"x 6" photo
51077

8 3/4"W x 6 3/4"H, holds 4"x 6" photo
51078

8 3/4"W x 6 3/4"H, holds 4"x 6" photo
51079

ACCESSORIES 



Vector Tray	
Vector tray 18"W x 12"H	63058



Cleaning Swabs	
Laser optics cleaning swabs, 10 pc	30864



Digital Caliper	
6" Digital caliper	51212



Cleaning Tissue	
Laser optics cleaning tissue	51213



Magnets	
1½"W x 2"H 150 pc	63056



Corner Jigs	
¼, ½, ¾ jigs	63066

These jigs are used when engraving the product.



Alder	
Alder 12"W x 5"H, 25 pc	51086



Laser Bed Aligment	
Laser Alignment Plate	63085



Laser Bed Alignment

1. Place the alignment plate in the top left corner of the laser bed
2. Run this file
3. Measure the offset between the box you lasered, and the box that was already lasered.
4. Turn the laser off, then back on.
5. As soon as the word "Gravograph" appears on the display, press and hold the X button.
6. Select the option "ReAlign Machine"
7. Select the option (ReAlign X Y)
8. Increase or decrease the X and Y values by the offset you measured
9. Press the check button, it will beep if the new values are accepted.

Troubleshooting

If your machine will not allow the offset you need to enter, you'll need to reset your fence. In the package of tools that arrived with the machine, there will be an allen wrench that will fit the screws along the rulers on the X and Y axis. Move the rulers as far in as possible. Run your red light along each axis to ensure the rulers are secured straight.



ONECUT

Efficient and convenient!
Most standard cutters are available with either a stainless steel shaft or a micrograin carbide shaft

TWINCUT NEW

The composition tool!
8 insert profiles accessible with a single tool holder
Economical and multifunctional.



Diamond

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







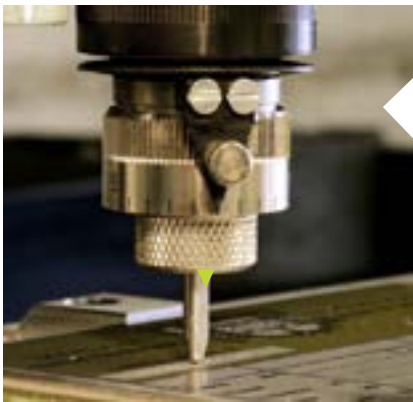
Before starting adjustment of your tools

1. Set the depth micrometer to position 0
2. Fit a cutter knob into the spindle. The screw thread is reversed.






Step-by-step engraving cutter adjustment for engraving plastics

1. Move the spindle into position above the plate to be engraved, using the X and Y arrows on the remote control 
2. Press the remote control button  (Z = 0.00 is displayed on the LCD screen)
Then lower the spindle by pressing and holding the button  until the adjustment tip touches the material to be engraved
3. Insert the engraving cutter into the button cutter knob. Lower it gently until the truncation touches the material to be engraved. Set the adjustment by tightening the cutter knob screw
4. Press the remote control button  to save the adjustment; the spindle then rises into position
5. Rotate the micrometer upwards to display the engraving depth (1 division = 0.025 mm - depth example: Gravoply 1 = 12 division)



Step-by-step diamond adjustment for engraving metals

Note: the regulator nose is not used for diamond engraving.

1. Remove the tool fitted to the spindle
2. Press the remote control button  and lower the bottom of the spindle  to within 8 mm to 12 mm of the metal plate to be engraved
3. Insert the diamond into the button cutter knob (previously fitted to the spindle) and lower it gently until it touches the metal material. Set the adjustment by tightening the cutter knob screw
4. Press the remote control button to save the adjustment 
5. The depth should be entered on the Gravostyle engraving screen.

1

Height of characters to be engraved

0.4 mm 1/64"	0.8 mm 1/32"	1.5 mm 1/16"	3.0 mm 1/8"	6 mm 1/4"	8.0 mm 5/16"	12.0 mm 1/2"	19.0 mm 3/4"	25.0 mm 1"	32.0 mm 1 1/4"	50 mm 2"
-----------------	-----------------	-----------------	----------------	--------------	-----------------	-----------------	-----------------	---------------	-------------------	-------------

The cutter tip width is directly related to the height of the engraved characters. To use this guide most effectively, define the cutter tip width according to:

- 1 - the height of the engraved characters
- 2 - the type of characters used (single or multi-line)

2

Tool width

Single-line characters	0.127 mm .005"	0.25 mm .010"	0.38 mm .015"	0.50 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 characters	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"

Example: Characters 12 mm (.47") high with a set of multi-character traits => width of tool = 0.75 mm (.030")

1/8" SHANK SIZE

Compatible with: M20Jewel, M20 3 Axis, M20 4 Axis, IM4 IM3, ITM, ITL and IF3 machines.
Unless otherwise stated, cutter length is 4-5 inches (101.6 mm - 127 mm).



1/8" Burnishing cutters for coated and polished metals

Trophy Brass, Colored and Marbled Steel, Gravoxal, and Gravometal

Cutting width	Part no.
.005	33877
.010	33878
.015	33879
.020	33880
.030	33882



1/8" Carbide cutters for plastic

GPLY I & II, Ultra, Gravolase, Metallex & Metallex 2

Cutting width	Part no.
.005	33855
.010	33856
.015	33857
.020	33858
.030	33860
.040	33861
.060	33862
.090	33863
.125	33864



1/8" Carbide cutters for Gravostrat

Cutting Width	Part no.
.010	33836
.015	33837
.020	33838
.030	33839



1/8" Carbide cutters for Acrylic and all Gravoglas

Cutting width	Part Number
0.010	33934
0.015	33935
0.020	33936
0.030	33937
0.040	33938
0.060	33939



1/8" Carbide cutters for deep engraving aluminum brass and soft metals

Gravoxal, Gravometal, Gravostrat, Colored Aluminum, Trophy Brass, Colored and Marbled Steel

Cutting width	Part Number
0.005	33866
0.010	33867
0.015	33868
0.020	33869
0.030	33870
0.040	33871
0.060	33872



1/8" Parallel cutters for 90° cut outs

Material type	Part Number
Gravoply	33865
Phenolic	33844
Ferrous Metals	33909



1/8" Radius Cutters for rounded cut

Use reverse engraving on Gravoglass for neon tube look. Also used for gasket grooves & 3D milling

Material type	Part Number
Gravoply	34086
Phenolic	34086
Ferrous Metals	34086

Choose radius (1/32", 1/16", 3/32", 1/8", 5/32")



1/8" Carbide cutters for ferrous metals for deep engraving in steel and ferrous metals

Cutting width	Part Number
0.010	33847
0.015	33848
0.020	33849
0.030	33850
0.040	33851
0.060	33852
0.125	33854

Compatible with: M20Jewel, M20 3 Axis, M20 4 Axis, IM4 IM3, ITM, ITL and IF3 machines.
Unless otherwise stated, cutter length is 4-5 inches (101.6 mm - 127 mm).

1/8" SHANK SIZE



1/8" HSS cutters for ferrous metals for deep engraving in steel and ferrous metals

Cutting width	Part Number
0.005	33910
0.010	33911
0.015	33912
0.020	33913
0.030	33914
0.040	33915
0.060	33916
0.090	33917
0.125	33918



1/8" Wide Angle cutters for painted, or coated aluminum, brass and soft metals

Gravoxal, Gravometal Colored Aluminum, Trophy Brass, Colored and Marbled Steel

Cutting width	Part Number
0.010	33888
0.015	33889
0.020	33890
0.030	33892
0.040	33893
0.060	33894



1/8" Quarter Round cutters for stainless steel and other hard metals

Cutting width	Part Number
0.005	33943
0.015	33944
0.020	33945
0.030	33946
0.040	33948
0.060	33919
0.090	33950

Compatible with TXL, IS, M and Vanguard series machines.

11/64" SHANK SIZE



11/64" Burnishing cutters for coated and polished metals
Trophy Brass, Colored and Marbled Steel, Gravoxal, and Gravometal

Maximum depth .002
(use light pressure setting for best results)

Cutting width	Part Number
0.005	34036
0.010	34037
0.015	34038
0.020	34039
0.030	34041
0.040	34042
0.060	34043
0.090	34044



11/64" Carbide cutters for plastic

Gravoply 1 & 2, Ultra, Gravolase, Metallex & Metallex 2

Cutting width	Part Number
0.005	34012
0.010	34013
0.015	34014
0.020	34015
0.030	34017
0.040	34018
0.060	34019
0.090	34020
0.125	34021
0.171	34022



11/64" Carbide cutters for Gravostrat

Cutting width	Part Number
0.005	33989
0.010	33990
0.015	33991
0.020	33992
0.030	33993
0.040	33994
0.060	33995
0.090	33996
0.125	33997
0.171	33998



11/64" Radius Cutters for rounded cut

Use reverse engraving on Gravoglas for neon tube look. Also used for gasket grooves & 3D milling

Material Type	Part no.
Gravoply	34086
Phenolic	34086
Acrylic	34086
Ferrous Metals	34086
Aluminum	34086

Choose radius (1/32", 1/16", 3/32", 1/8", 5/32")



11/64" Parallel cutters for 90° cut outs

Material Type	Part no.
Gravoply	34023
Phenolic	33999
Acrylic	34118
Ferrous Metals	34010
Aluminum	34034

11/64" SHANK SIZE

Compatible with TXL, IS, M and Vanguard series machines.



11/64" HSS cutters for Acrylic and all Gravoglas 35° cutting angle

Cutting width	Part Number
0.005	34075
0.010	34076
0.015	34077
0.020	34078
0.030	34079
0.040	34080
0.060	34081
0.090	34082
0.125	34083
0.171	34084

11/64" Carbide cutters for Acrylic

All Gravoglas and Acrylic

Cutting width	Part Number
0.005	34108
0.010	34109
0.015	34110
0.020	34111
0.030	34112
0.040	34113
0.060	34114
0.090	34115
0.125	34116
0.171	34117

11/64" Carbide cutters for Acrylic for all Gravoglas 55° cutting angle for letters over .5"

Cutting width	Part Number
0.005	34099
0.015	34100
0.020	34101
0.030	34102
0.040	34103
0.060	34104
0.090	34105

11/64" Carbide cutters for deep engraving aluminum brass and soft metals

Gravoxal, Gravometal, Gravostral, Colored Aluminum, Trophy Brass, Colored & Marble Steel

Cutting width	Part Number
0.005	34024
0.010	34025
0.015	34026
0.020	34027
0.030	34028
0.040	34029
0.060	34030
0.090	34031
0.125	34032
0.171	34033

11/64" Carbide cutters for deep engraving steel and ferrous metals

Cutting width	Part Number
0.005	34000
0.010	34001
0.015	34002
0.020	34003
0.030	34004
0.040	34005
0.060	34006
0.090	34007
0.125	34008
0.171	34009



11/64" HSS cutters for ferrous metals for deep engraving in steel and ferrous metals

Cutting width	Part no.
.005	34064
.010	34065
.015	34066
.020	34067
.030	34068
.040	34069
.060	34070
.090	34071
.125	34072
.171	34073

11/64" Wide Angle cutters for painted or coated aluminum brass and soft metals

Gravoxal, Colored Aluminum, Trophy Brass, Colored & Marbled Steel, and Gravometal

Cutting width	Part no.
.005	34049
.010	34050
.015	34051
.020	34052
.030	34054
.040	34055
.060	34056
.090	34057
.125	34058
.171	34059

11/64" Quarter Round cutters for stainless steel and other hard metals

Cutting width	Part no.
0.005	34126
0.010	34127
0.015	34128
0.020	34130
0.030	34132
0.040	34133
0.060	34134
0.090	34135
.125	34136
.171	34137

11/64" End Mill Cutters for deep routing in metal

Cutting width	Part no.
.060	34146
.090	34147
.125	34148
.171	34149

Compatible with TXL, IS, M and Vanguard series machines.

1 1/64" SHANK SIZE

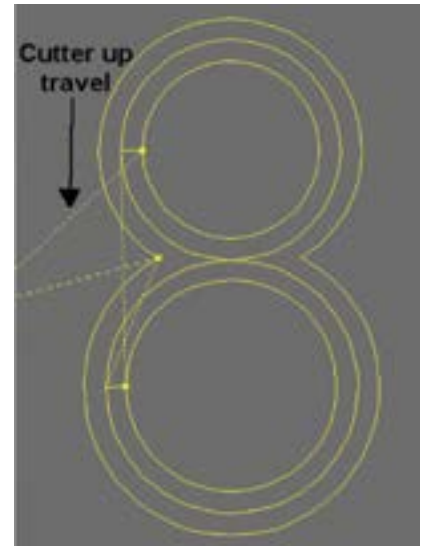
Font types are critical to engraving quality and time

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 program to calculate the tool paths.

Engraving fonts are pre-engineered fonts with optimized tool paths, designed for reducing engraving time and optimising engraving quality. Engraving fonts are optimized 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 optimized 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.



Compatible with 1/4" Collet spindles and Vanguard series machines.

1/4" SHANK SIZE



1/4" Burnishing cutters for coated and polished metals

Trophy Brass, Colored and Marbled Steel, Gravoxal and Gravometal

Maximum depth .002
(use light pressure setting for best results)

Cutting width	Part no.
.010	34207
.015	34208
.020	34209
.030	34211
.040	34212
.060	34213
.090	34214



1/4" Carbide cutters for plastic

GPLY I & II, Ultra, Gravolase, Metallex & Metallex 2

Cutting width	Part no.
.005	34184
.010	34185
.015	34186
.020	34187
.030	34189
.040	34190
.060	34191
.090	34192
.125	34193
.171	34194
.250	34196



1/4" Carbide cutters for Gravostrat and Gravoply 2-Plex

Cutting width	Part no.
.005	34158
.010	34159
.015	34160
.020	34161
.030	34162
.040	34163
.060	34164
.090	34165
.171	34167
.250	34169



1/4" Carbide cutters for Acrylic

All Gravoglas and Acrylic
35 ° cutting angle for deep engraving

Cutting width	Part no.
.010	34273
.015	34274
.020	34275
.030	34276
.040	34277
.060	34278
.090	34279



1/4" Radius cutters for rounded cut

Use reverse engraving on Gravoglas for neon tube look. Also used for gasket grooves & 3D milling

Material Type	Part no.
Gravoply	34259
Phenolic	33999
Ferrous metals	34010

Choose radius (1/32", 1/16", 3/32", 1/8", 5/32")

1/4" SHANK SIZE

Compatible with 1/4" Collet spindles and Vanguard series machines.



1/4" Carbide cutters for Acrylic and all Gravoglas 110° cutting angle for letters over .5"

Cutting width	Part no.
.030	34265
.060	34267
.171	34270
.250	34272



1/4" Carbide cutters for deep engraving aluminum, brass and soft metals
Gravoxal, Gravometal, Gravostral, Colored Aluminum, Trophy Brass, Colred and Marbled Steel

Cutting width	Part no.
.005	34198
.010	34199
.015	34200
.020	34201
.030	34202
.040	34203
.060	34204



1/4" Wide Angle cutters for painted or coated aluminum, brass and soft metals
Gravoxal, Colored Aluminum, Trophy Brass, Colored & Marbled Steel, and Gravometal

Cutting width	Part no.
.010	34219
.015	34220
.020	34221
.030	34223
.040	34224
.060	34225



1/4" Carbide 18° cutters for deep engraving steel and ferrous metals

Cutting width	Part no.
.005	34309
.010	34310
.015	34311
.030	34312



1/4" Quarter Round cutters for stainless steel and other hard metals

Cutting width	Part no.
.005	34285
.010	34286
.015	34287
.020	34288
.030	34290
.040	34291
.060	34292
.090	34293
.125	34294
.171	34295



1/4" Carbide 20° cutters for deep engraving steel and ferrous metals

Cutting width	Part no.
.005	34313
.010	34314
.015	34315



1/4" End Mill cutters for deep routing in metal

Cutting width	Part no.
.060	34303
.090	34304
.125	34305
.171	34306



1/4" Parallel cutters for 90° cut outs

Material Type	Part no.
Gravoply	34023
Phenolic	33999
Ferrous Metals	34010



ENGRAVING

Compatible with: TXL, M40, IS200, IS400, IS900, IS6000/7000/8000

STANDARD CONICAL

COMPATIBLE MATERIALS	$\theta = 22.5^\circ$	$\theta = 30^\circ$
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☉	☉
Leathers and derived products	■	■
Phenolic	■	■
Gold/Silver	☉	☉
Aluminium/Brass	☉	☉
Steel/Stainless steel	■	■

☉ Absolutely suitable ■ Suitable

$\theta = 22.5^\circ$	CARBIDE	A (MM-INCH)	CONICAL	A (INCH - MM)	CARBIDE	$\theta = 30^\circ$
	48608	0.25	.010"			
	48609	0.32	.013"			
	48610	0.50	.020"			
	48611	0.75	.030"			
	48612	1.00	.040"			
	48613	1.25	.050"			
	48614	1.50	.060"			
	48615	1.75	.069"			
	48616	2.00	.080"			
	48617	2.50	.100"			
48618	3.00	.120"				

CYLINDRICAL

COMPATIBLE MATERIALS	FLAT END	ROUND END
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☉	☉
Leathers and derived products	■	■
Phenolic	■	■
Gold/Silver	■	■
Aluminium/Brass	■	■
Steel/Stainless steel	■	■

☉ Absolutely suitable ■ Suitable

FLAT END	CARBIDE	A (MM-INCH)	CYLINDRICAL	A (INCH - MM)	CARBIDE	ROUND END
	48619	1.00	.040"			
	48620	1.50	.060"			
	48621	2.00	.100"			
	48622	2.50	.100"			
	48623	3.00	.120"			
	48624	1.00	.040"			
48625	1.50	.060"				
48626	2.00	.100"				
48627	2.50	.100"				
48628	3.00	.120"				

CONICAL

COMPATIBLE MATERIALS	$\theta = 35^\circ$	DOUBLE CONE
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☉	☉
Leathers and derived products	■	■
Phenolic	■	■
Gold/Silver	☉	☉
Aluminium/Brass	☉	☉
Steel/Stainless steel	■	■

☉ Absolutely suitable ■ Suitable

$\theta = 35^\circ$	CARBIDE	A (MM-INCH)	CONICAL	A (INCH - MM)	CARBIDE	DBLE CONE
	48629	0.25	.010"			
	48630	0.32	.013"			
	48631	0.50	.020"			
	48632	0.75	.030"			
	48633	1.00	.040"			
	48634	1.25	.050"			
	48635	1.50	.060"			
	48645	0.25	.010"			
	48646	0.32	.013"			
	48647	0.50	.020"			
48648	0.75	.030"				
48649	1.00	.040"				
48650	1.25	.050"				

Advice for use

SPECIAL CONICAL

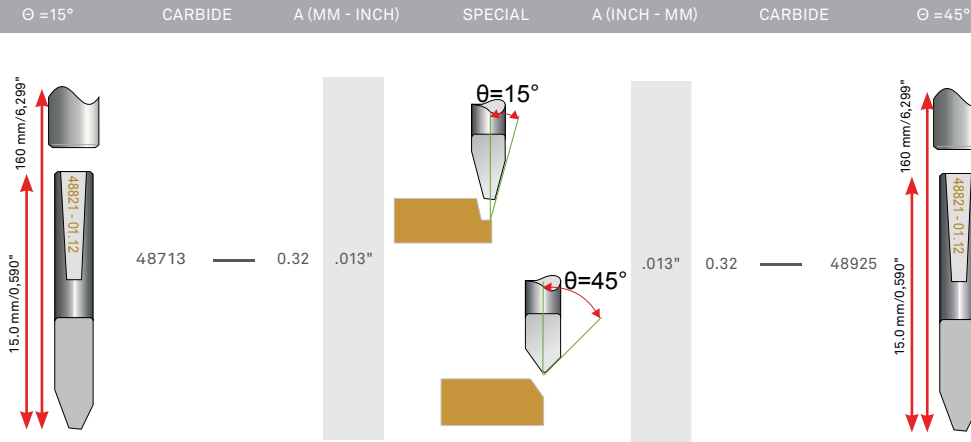
COMPATIBLE MATERIALS	1/4 ROUND
Gold/Silver	☉
Aluminium/Brass	☉
Steel/Stainless steel	■

☉ Absolutely suitable ■ Suitable

Advice for use	1/4 ROUND	A (INCH - MM)	CARBIDE	1/4 ROUND			
<p>Anodized aluminium: depth 1 division at adjustment tip</p> <p>Steel and stainless steel: Rotation speed = 11,000 rpm (adjustment only possible on IS)</p> <p>A higher speed would cause premature wearing in the truncation. Vxy = 5mm/s/ Vz = 3mms</p> <p>The use of a cutting lubrication oil is essential: TARFIL™ blue ref: 19526</p>							
					.010"	0.25	48636
					.013"	0.32	48637
					.020"	0.50	48638
					.030"	0.75	48639
					.040"	1.00	48640
					.050"	1.25	48641
					.060"	1.50	48642
					.069"	1.75	48643
					.080"	2.00	48644

Compatible with: TXL, M40, IS200, IS400, IS900, IS6000/7000/8000

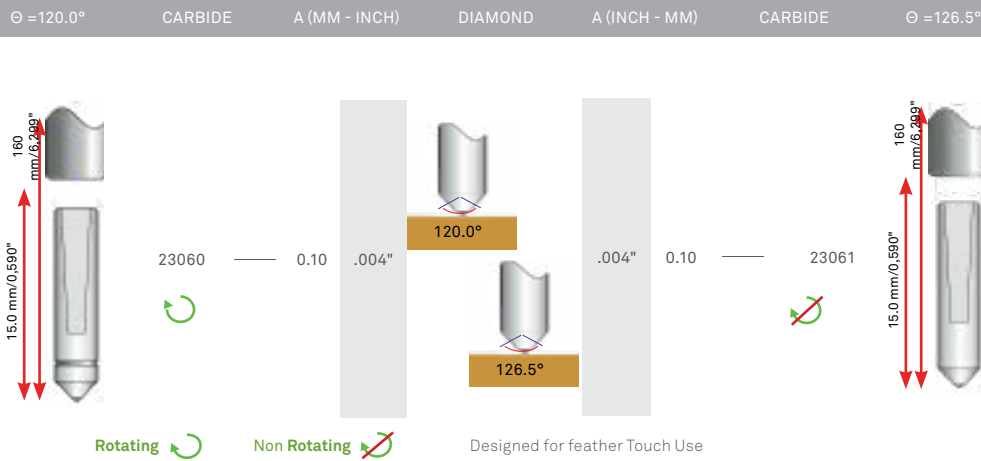
BEVELLING



SPECIAL

	$\theta = 15^\circ$	$\theta = 45^\circ$
COMPATIBLE MATERIALS	☉	☐
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☐	☐
Leathers and derived products	☐	☐
Phenolic	☐	☉
Gold/Silver	☐	☐
Aluminium/Brass	☉	☉
Steel/Stainless steel	☐	☐
☉ Absolutely suitable	☐ Suitable	

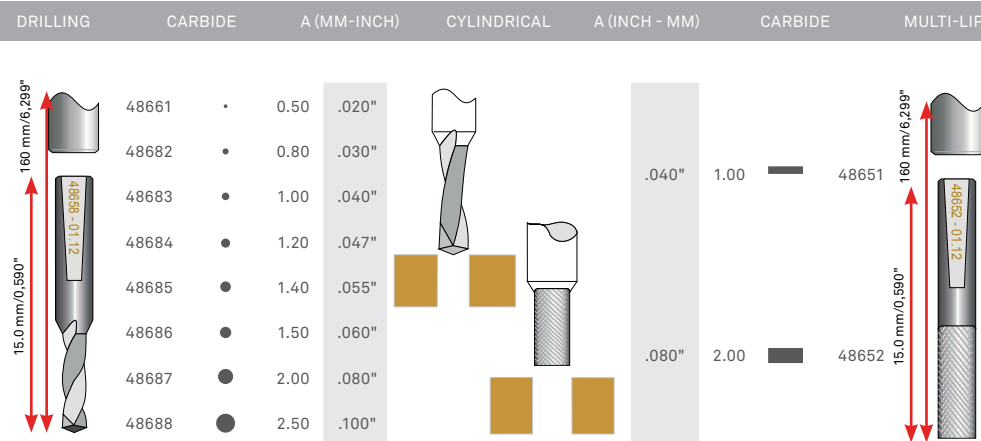
SCRIBING



DIAMOND

	$\theta = 120.0^\circ$	$\theta = 126.5^\circ$
COMPATIBLE MATERIALS	☉	☐
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☐	☐
Gold/Silver	☐	☉
Aluminium/Brass	☉	☐
Steel/Stainless steel	☐	☐
☉ Absolutely suitable	☐ Suitable	

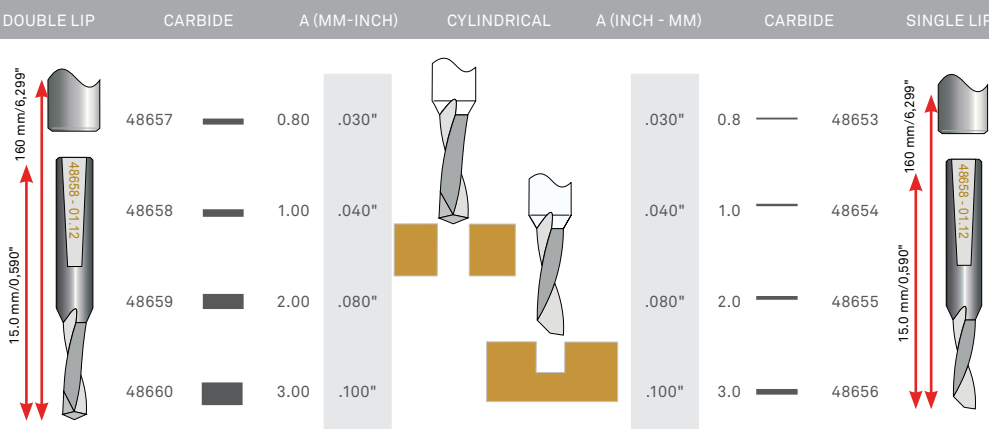
DRILLING AND CUTTING



CYLINDRICAL

	DRILLING	MULTI-LIPS
COMPATIBLE MATERIALS	☉	☐
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☉	☐
Leathers and derived products	☐	☐
Phenolic / Epoxy	☐	☉
Gold/Silver	☐	☐
Aluminium/Brass	☐	☐
Steel/Stainless steel	☐	☐
☉ Absolutely suitable	☐ Suitable	

CUTTING



CYLINDRICAL

	DOUBLE LIPS	SINGLE LIP
COMPATIBLE MATERIALS	☐	☐
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☐	☐
Gold/Silver	☐	☐
Aluminium/Brass	☉	☉
☉ Absolutely suitable	☐ Suitable	

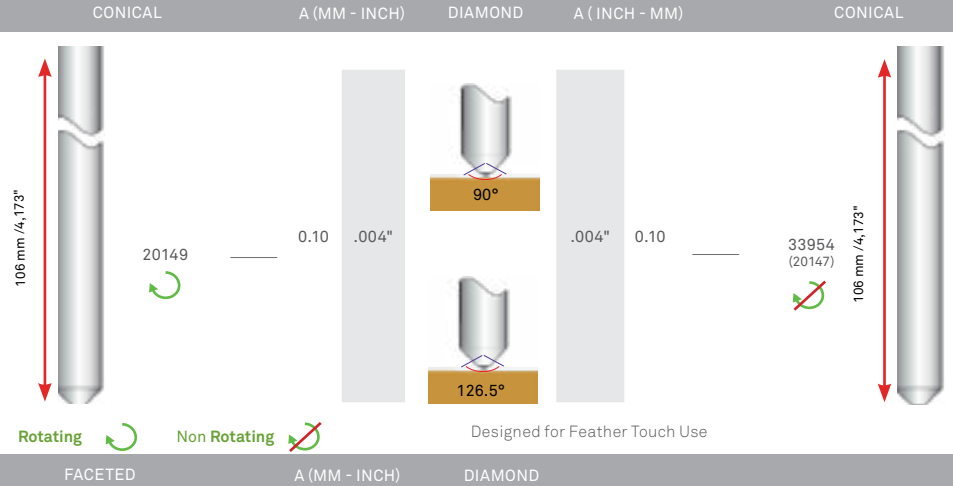


ONECUT 3.17 mm

SCRIBING DIAMOND

COMPATIBLE MATERIALS	ROTATING	NON ROTATING
Gravoply™, Metallex™ & Gravoglas™, Acrylic		
Leathers and derived products		
Glass & Mirrors	⊙	▪
Gold/Silver	▪	▪
Aluminium/Brass	▪	▪
Steel/Stainless steel	▪	⊙

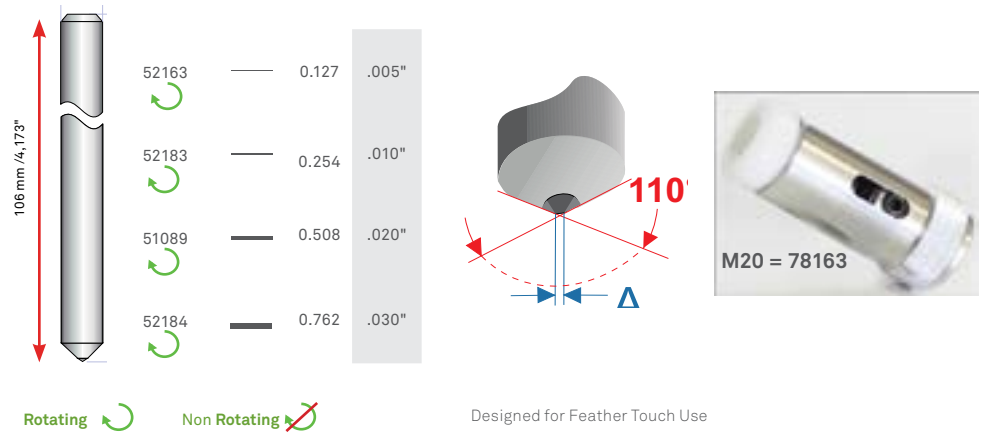
Absolutely suitable Suitable



FACETED DIAMOND

COMPATIBLE MATERIALS	FACETED DIAMOND
Gravoply™, Metallex™ & Gravoglas™, Acrylic	
Leathers and derived products	
Glass & Mirrors	⊙
Gold/Silver	
Aluminium/Brass	▪
Steel/Stainless steel	

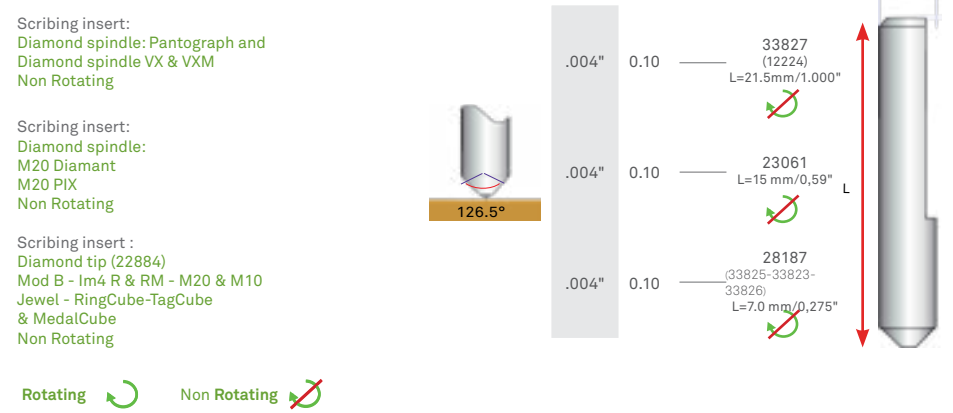
Absolutely suitable Suitable



DIAMOND INSERT

COMPATIBLE MATERIALS	INSERTS-DIAMOND
Gravoply™, Metallex™ & Gravoglas™, Acrylic	
Leathers and derived products	
Glass & Mirrors	▪
Gold/Silver	⊙
Aluminium/Brass	▪
Steel/Stainless steel	▪

Absolutely suitable Suitable

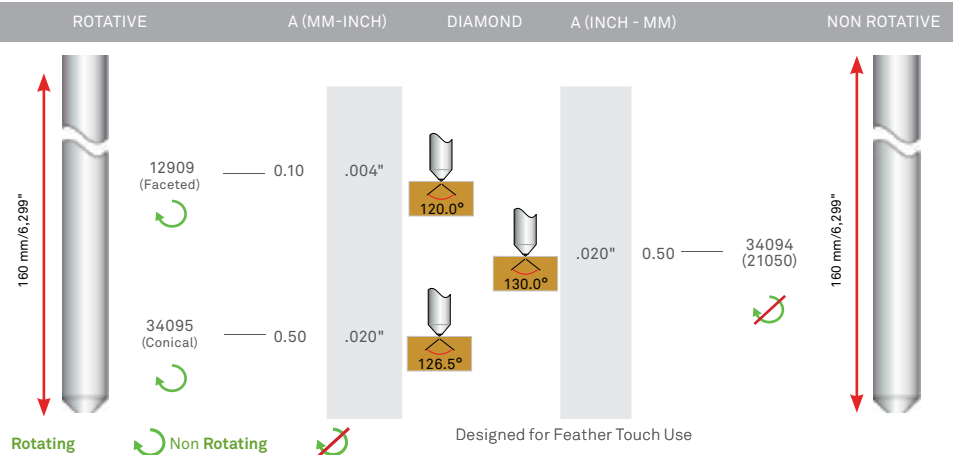


ONECUT 4.36 mm

CONICAL & FACETED DIAMOND

COMPATIBLE MATERIALS	ROTATING DIAMOND	NON ROTATING DIAMOND
Glass & Mirror	⊙	▪
Aluminium/Brass	▪	⊙
Gold/Silver	▪	▪
Steel/Stainless steel		⊙

Absolutely suitable Suitable



ONECUT 4.36 mm

FACETED DIAMOND	A (MM - INCH)	CONICAL	L
77659	0.25	.010"	130mm/5.118"
34122	0.25	.010"	160mm/6.299"
34123	0.38	.015"	160mm/6.299"
34124	0.76	.030"	160mm/6.299"

110°
A

M40 = 81898

IS = 78465

Rotating Non Rotating

Designed for Feather Touch Use

FACETED DIAMOND

FACETED DIAMOND

COMPATIBLE MATERIALS

- Plastics
- Leathers and derived products
- Glass & Mirror
- Aluminium/Brass
- Gold/Silver
- Steel/Stainless steel

Absolutely suitable Suitable

BALL DIAMOND	A (MM - INCH)	SPECIAL DIAMOND	A (MM - INCH)	CONICAL DIAMOND
20932	1.60	.063"	0.75	34119 (27044)
20933			1.50	34120
			2.30	34121

160 mm/6,299"

Rotating Non Rotating

Designed for Feather Touch Use

SPECIAL

DIAMOND BALL DIAMOND CONICAL

COMPATIBLE MATERIALS

- Plastics
- Leathers and derived products
- Phenolic
- Steel/Stainless steel
- Glass & Mirrors
- Granite

Absolutely suitable Suitable

ONECUT 6.35 mm

SCRIBING DIAMOND	A (INCH - MM)	DIAMOND
.004"	0.10	34261 (11890)

130°

178.0 mm/7.000"

Rotating Non Rotating

Scribing diamond
Non Rotative
 Engraving on ferrous metal and non ferrous metal.
 Pantograph IR & IRV
 CN machines using a 6.35mm col-let spindle.

SCRIBING DIAMOND

DIAMOND

COMPATIBLE MATERIALS

- Glass & Mirrors
- Gold/Silver
- Aluminium/Brass
- Steel/Stainless steel

Absolutely suitable Suitable

TWINCUT

DIAMOND	A (MM - INCH)	CONICAL	A (INCH - MM)	DIAMOND
23060	0.10	.004"	0.10	23061

120.0°

126.5°

160 mm/6.299"

15.0 mm/0.590"

Rotating Non Rotating

DIAMOND

COMPATIBLE MATERIALS

- Gravoply™, Metallex™ & Gravoglas™, Acrylic
- Gold/Silver
- Aluminium/Brass
- Steel/Stainless steel

Absolutely suitable Suitable

Gravogyde attachment

Add the Gravogyde attachment to your cutter to get a light pressure or soft touch for a great polished look for burnishing (not for M series machines).

For 1/8" cutters **34379**
For 11/64" cutters **34384**

Yellow handle cutter wrench

To tighten and loosen set-screws in brass collar of 1/8", 11/64" and 1/4" cutter **33015**

Black handle cutter wrench

To tighten and loosen set-screws in brass collar of M20 and M40 machine spindles (for cutter replacement). **10016**

Wrench for diamond inserts

To tighten and loosen set-screws holding diamond inserts **33009**

Ball point pen cutter

Used to verify engraving location on tape prior to engraving to prevent costly mistakes

1/8" ball point pen cutter for IM4 and M20 machines **47112**
Ball point pen assy. (11/64" shaft) M40 only **21679**
Ball point pen assy. (11/64" shaft) IS series only **33568**
Ball point pen cartridge replacement (medium) 2/pack **33569**

Diamond inserts

5/16" length, 1/8" shank for manual inside ring engraver and IM4RM **28187**
7/16" length, 1/8" shank for M20 Pix & M20 fixed diamond **33825**
Heavy duty diamond spindle with insert, non-rotating **22224**
1" replacement insert for 22224 **33827**

.015 modified faceted cutter for glass engraving

Use with nose cone **20131**
11/64" modified faceted cutter 015 6" long **49720**

ONECUT Cutter Sharpening Service

Use with nose cone **32777**
11/64" modified faceted cutter 015 6" long **49720**

Bottom load tools

Description		Part Number
1/8 carbide cutter 010 1.5"	Hf spindle; 1.5" length	52182
1/8 carbide cutter 020 1.5"	Hf spindle; 1.5" length	52181
1/8 ball end mill 1/32d	1.5" 4 flute tin coat	48464
1/8 ball end mill 3/64d	1.5" 4 flute tin coat	48465
1/4 carbide cutter 15° 0.002	For 1/4 collet 2"	34307
1/4 carbide cutter 20° 0.005	For 1/4 collet 2"	34313
1/4 carbide cutter 18° 0.010	For 1/4 collet 2"	34310
1/4 carbide cutter 20° 0.010	For 1/4 collet 2"	34314
1/4 carbide cutter 18° 0.015	For 1/4 collet 2"	34311
1/4 carbide cutter 20° 0.015	For 1/4 collet 2"	34315
1/4 stencil carbide cutter 010	For 1/4 collet 2"	52179
1/8 stencil carbide cutter 010	For 1/8 collet 2"	52180
1/4 end mill 092d 2" 2 flute	For 1/4 collet 2"	34304
1/4 end mill 250d 2" 2 flute	For 1/4 collet 2"	34306
1/4 end mill 125d 2" 2 flute	For 1/4 collet 2"	34305
1/4 end mill 062d 2" 2 flute	For 1/4 collet 2"	34303
1/4 end mill 125d 2" 2 flute	For router	46360
1/4 ball end mill 125d 2" 2 flute	For router	46043
1/4 end mill 250d 2" 2 flute	For router	46359
1/4 ball end mill 150d 2" 2 flute	For router	46044

Cutters for collet spindles / All 2" length unless specified.

Top load tools

Description		Part Number
1/8 stencil HSS cutter 010	Top load 18°	33898
1/4 stencil carbide cutter 010	Top load 18°	34155
1/4 stencil HSS cutter 010	Top load 18°	34232
11/64 stencil carbide cutter 010	Top load 18°	33984
11/64 stencil HSS cutter 010	Top load 18°	34061
11/64 stencil HSS cutter 040	Top load 18°	34091
11/64 stencil HSS cutter 060	Top load 18°	34092
11/64 stencil HSS cutter 080	Top load 18°	34093
11/64 engr. end mill 060 cutter	6-3/8 Lg.	34146
11/64 engr. end mill 090 cutter	6-3/8 Lg.	34147
11/64 engr. end mill 125 cutter	6-3/8 Lg.	34146
11/64 engr. end mill 090 cutter	6-3/8 Lg.	34147
11/64 engr. end mill 125 cutter	6-3/8 Lg.	34148
11/64 engr. end mill 171 cutter	6-3/8 Lg.	34149

Custom cutter sizes are available upon request

TWINCUT STARTER KIT AND ACCESSORIES



NEW A. Starter Kit

B. Steel block
included in starter kit

C. Cutter knob key
included in starter kit

D. Cutter knob

E. Tool holder
included in starter kit

F. Brush

G. Ejector
included in starter kit

Onecut	Twincut	IS machine	M40
■	■	69722	69723
	■	13798	
	■	10016	
■	■	10016	
	■	22987	69729
■	■	11791	
	■	69724	69727

GRINDING EQUIPMENT



20890
Ø = 3.17 mm

20891
Ø = 4.36 mm

20892
Ø = 6.35 mm

20125	Corundum grinding wheel for Steel cutters
20126	Diamond grinding wheel D46 for Carbide cutters
20890	CG30 collet - Ø = 3.17 mm (1/8")
20891	CG30 collet - Ø = 4.36 mm (11/64")
20892	CG30 collet - Ø = 6.35 mm (1/4")
27836	CG30 collet - Ø = 8.00 mm (5/16")



20126




20125



GRAVOSTYLE™

The unique software for laser and rotary engraving machines

Levels

	Explorer Rotary	Discovery Laser + Rotary	DiscoveryMax Laser + Rotary
	Essential lettering capabilities	Go hybrid. Drive laser & rotary technology	Productivity package
			
Features	<ul style="list-style-type: none"> • Import of vector files (DXF, EPS, HPGL etc.) and images (BMP, JPG, PNG and TIF etc.) • Plate Point & Shoot: makes it possible to define the engraving area directly on the machine • Standard text functions • Automatic centering function and centering texts on their plate • Pre-routed engraving fonts • Extensive choice of symbols • Intuitive management of toolpaths by color with advice on the choice of tools • On-screen preview 	<ul style="list-style-type: none"> • Matrix & variable lists • Layer management • PDF import & files export (PDF, DXF, EPS, HPGL...) • Alignment & transformation tools • Geometric shapes • Laser driving capabilities with presets • Calibration wizard: one-step process to establish optimal laser settings 	<ul style="list-style-type: none"> • Scanning & vectorization • Point mode & bitmap editor • 2D recess by color • Retail font pack (incl. over 100 fonts) • Scripting (macro function capabilities)
Options	<p>Personalization pack:</p> <ul style="list-style-type: none"> • Handwriting stroked engraving fonts • Photo processing capabilities • Additional stroked engraving fonts 	<ul style="list-style-type: none"> • Braille production • Font editor 	<ul style="list-style-type: none"> • Text on a curve
Applications	<ul style="list-style-type: none"> • Badges, nameplates & doorplates • Photo touch-ups • Jewelry & gifts • Pens • Pet tags & key rings • Legend plates • Valve & push button tags 	<ul style="list-style-type: none"> • Plate serialization • Variable list of names • Small signage • Funeral plates • Rubber stamps 	<ul style="list-style-type: none"> • Logo scanning & editing • Trophy plates • Plates with text & logos • Signage with text & logos

In all levels

Features	<ul style="list-style-type: none"> • Point & Shoot to check engraving position • Help features & wizards (step by step guided functions) • Engraving parameters saved with job • Automatic text composition mode 	<ul style="list-style-type: none"> • Computip feature to recommend the most efficient tools • Support for Automatic Plate Feeding applications • Support for cylindrical engraving • Customization of working environment 	<ul style="list-style-type: none"> • Post-it function to take notes while you engrave • Hot keys • Favorites toolbar • Object freezing
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GravoStyle™, available in multiple levels of functionality provides features and special functionalities meeting specific market needs for engraving, cutting, marking, ablating and annealing processes for CNC rotary and CO₂, YVO4 and fiber laser technologies. Specialised functionalities include:

- Dials, scales, matrix and serialization labeling for the industrial market;
- Letter cutting and Braille for the signage market;
- Photo engraving, handwritten dedication and decorative plaques thanks to the personalization pack.

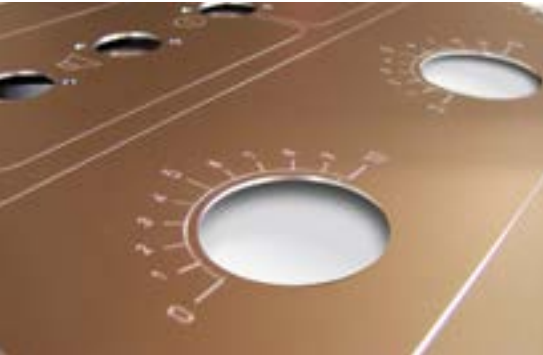


There are many more such functions for the engraver and endless possibilities for their use. Use the software today and experience the depth and breadth of its capabilities.

GravoStyle™ is designed to work together with your current 3rd-party design software while providing powerful engraving-specific features.

Engraving made easy. GravoStyle™'s new features include a Dynamic Helpdesk Assistant (DHA) with video directly in the software engraving window. In addition, an online Engraving Database of Parameters (EDP) provides the optimal laser process settings for the full range of Gravograph laser consumables.

RUN WITH



<h3>Industry</h3> <p>Laser + Rotary</p>	<h3>Graphic</h3> <p>Laser + Rotary</p>	<h3>3D</h3> <p>Laser + Rotary</p>
<p>Power, precision & productivity</p> 	<p>Unleash your creativity</p> 	<p>Take your engraving to a new dimension</p> 
<ul style="list-style-type: none"> • Dials & scales • Scripting (macro function capabilities) • Long Plate management • Measurement tools • Batch import • External data import (CSV, TXT, Excel®, SQL, ODBC..) • Shape duplication tools 	<ul style="list-style-type: none"> • Nesting (material optimization) • CAM module (advanced tool management) • Powerful on-screen simulation & rendering • Advanced Braille toolpath management • Print & Cut module • LED positioning function • Photo lasering optimization function • Moulds and dies • Shading (3D effect) 	<ul style="list-style-type: none"> • Surface creation & manipulation tools • Styl'Art 3D modeling module • 3D texturing • Sculpture tool • 3D CAM advanced toolpaths • 3D visualization tools • Includes all 2.5D functions
<ul style="list-style-type: none"> • Barcodes, Datamatrix, QR Code® and UID - unique identification with variables management 	<ul style="list-style-type: none"> • 2.5D toolpath for jewelry/metal stamps & intaglio for signage • Laser toolpath management for deep marking 	
<ul style="list-style-type: none"> • Rating plates • Control panels • Part identification & traceability • Circuit boards • Linear & 2D barcodes • Paper & cardboard cutouts with laser 	<ul style="list-style-type: none"> • Advanced photo lasering • Model making • Marquetry • Hot stamping • Award design & production • Printed signage cutout • Signs conception 	<ul style="list-style-type: none"> • 3D signage • Displays • Embossing/debossing dies • Food molds • Furniture decoration • Models & prototypes • Award & recognition • Commemorative



ENGRAVING IS **EVERYWHERE**

Since 1938, Gravotech brands have been global leaders in the design, manufacturing, sales and support of innovative solutions for engraving, marking and artistic modeling. As a global leader in durable marking technologies we utilize our expertise to develop and market equipment, software and engraving material for every application, from personalization to architectural signage and industrial part marking. At Gravotech, we pride ourselves on being a one-stop-shop for all your engraving needs.

WWW.GRAVOSTOREUSA.COM

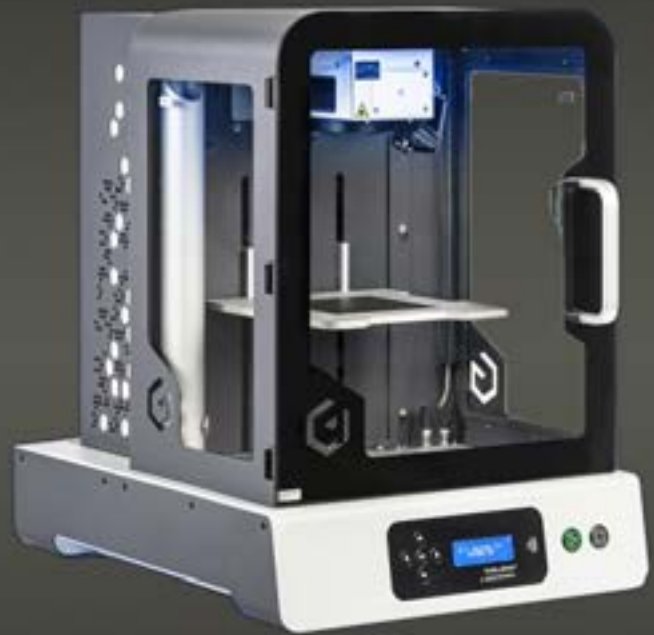


Gravostore
by GRAVOTECH

Welase™

by GRAVOGRAPH 

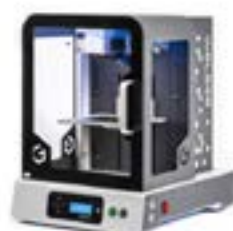
EVERYONE - EVERYWHERE - EVERYTHING



The Welase™ is an all new, all-in-one laser engraving station brought to you by Gravograph. This machine was created for EVERYONE. No assembly is needed, so you can simply unpack it and start engraving. Whether you use text, vector files, drawings, or photos, the Welase™ will accomplish EVERYTHING you throw at it! Permanent engravings are created in seconds, and with our 4 laser technologies (Green, Fiber, Hybrid, CO₂) you will never meet a material you can't mark. The sleek and compact design means that this machine will fit in EVERYWHERE. Create a unique customer experience with the three transparent viewing windows that allow them to see the laser in action, or project live video to a screen using the Live View Camera Feature.

Signage, awards, jewelry, cosmetics, packaging; you name it, Welase™ can handle it!

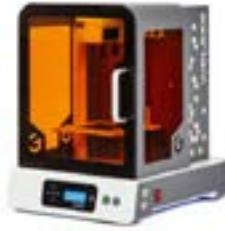
Technical Specifications



CO₂



HYBRID



GREEN



FIBER

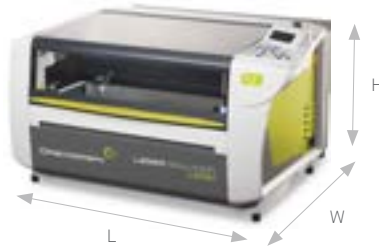
Dimensions	450 x 560 x 610 mm (17.7 x 22 x 24 in)			
Weight	37 kg (81.5 lbs)			
Engraving Area	110 x 180 mm (4.3 x 7 in)	110 x 110 mm (4.3 x 4.3 in)		
Max. Item Size	340 x 200 x 180 mm (13 x 7.8 x 7 in)	340 x 200 x 100 mm (13 x 7.8 x 4 in)		
Max. Item Weight	3kg (6.6 lbs)			
Communication	Ethernet and Wifi			
Power Supply	100/240V AC - 50/60 Hz			
Laser Source	CO ₂	Hybrid	Green	Fiber
Wavelength	10 600 nm	1064 nm	532 nm	1064 nm
Power	10 W	10 W	5 W	20 W
Frequency	CW laser (Continuous wave)	10 - 100 kHz	10 - 100 kHz	30 - 60 kHz
Software	ABC / Gravostyle™ / Gravotouch			

Laser technologies

Gantry

LS100

Compact & affordable



LS100^{EX}

Extended capacities



Dimensions - LxWxH (mm)	775 x 725 x 450 (30.51" x 28.54" x 17.72")	1025 x 725 x 450 (40.35" x 28.54" x 17.72")
Lasering area (mm)	460 x 305 (18" x 12")	610 x 305 (24" x 12")
Z axis (mm)	145 (5.7")	145 (5.7")
CO2 ENERGY (W)	25	25
Sealed CO2 (W)	40 - 60	40 - 60
Fiber (W)	-	20 - 30
Edge	-	-
Standard features	Point & Shoot - Full Table autofocus - Electrical Z - Embedded dashboard - Manual Print & Cut - Laserstyle software - Direct driver - integrated exhaust compatible	
Options	Honey Comb cutting table - Cylindrical attachment - range of focal optics - Exhaust devices - Floating pin cutting table	
Net Weight (Kg)	43	70

Accessories

Range of integrated exhaust devices

Designed specifically for Gravograph systems, these exhaust units are essential lasering accessories. They enable the marking, engraving and cutting of fume generating material such as rubber, acrylic or wood within a safe and pleasant working environment. Compact - 3 stage filtration - Single point connection - Moveable, on castor wheels - Synchronised on/off with laser.



	LE120HP / LE140HP	LE150HP	LNI900	LE190HP	ES10	ES30
Max. air flow (m³/h)	400	400	240	700	200	360
Static pressure (kPa)	10	10	22	10	4	9
Active carbon (L)	20	40	42	40	13	30
Compatible	LS100	LS100Ex	LS900	LS1000 [®]	with full range	

APF Laser

With a capacity of up to 195 plates, the APF is an essential accessory for high volume lasering of rating plates, tags, ID plates or labels. APF: compatible with LS100, and LS100EX. No external air compressor required.



Applications

Signage

Rubber Stamps, Nameplates, Badges, Directories, Synoptic, Safety, Signs, Location & Directional, Fabricated Elements, DDA Braille Profiling, Inlay Cutting...

Personalization

Pet Tags, Glassware, Tableware, Pens, Paper Goods, Gifts & Corporate, Gifts, Photos, Jewelry, Guns, Recognition & Awards, Sport and Trophies, Cup, Fabric, Leather...



LS900 - LS900^{XP}

Heavy duty



1080 x 630 x 810 (42.52" x 37.2" x 31.89")

610 x 610 (24" x 24")

250 (9.84")

25

40 - 60 - 80

20 - 30 - 50

40W CO2 + 20F / 30F / 50F

Point & Shoot - Full Table autofocus - Electrical Z - Embedded dashboard - Manual Print & Cut - Laserstyle software - Direct driver - integrated exhaust compatible

Honey Comb cutting table - Cylindrical attachment - range of focal optics - Exhaust devices - Floating pin cutting table - Print & Cut camera

180

LS1000^{XP}

High productivity



1080 x 945 x 810 (42.52" x 37.2" x 31.89")

1220 x 610 (48" x 24")

300 (11.81")

-

60 - 80 - 100 - 150

-

-

Range of accessories for maximum productivity

Floating Pin Cutting Table

- Virtually eliminates back-flash effect
- Quick and easy setup
- Relocatable pins
- Suitable for all gantry lasers

Fixing

- Gravogrip mat

Honeycomb Cutting Table

- Stainless steel frame
- Excellent rigidity and durability
- Graduated alignment rulers for fast and accurate item positioning
- Minimises back-flash effect
- Easily inserted & removed from laser
- Covers the whole of the lasering area
- Available for LS100-LS100EX-LS900-LS900XP lasers

Cylindrical attachments

- Plug & Play installation
- Tilt mechanism allows lasering of conical shaped items
- 130 mm maximum diameter (LS100-LS100EX)
- 200 mm maximum diameter (LS900-LS900XP-LS1000XP)
- Supplied with five plastic cones of assorted sizes
- Optional concentric chuck
- Cone holding system allows lasering repeatability

Focal lenses

- A wide range of lenses for specialist applications such as precision lasering, thick material cutting or increased Z clearance.
- Available lenses: 1.5" - 2.0" - 2.5" - 4.0"



See our complete range of laser accessories >



Identification - Cutting and engraving

Direct Part Marking, Barcodes, UID, Electrical Plates, Modeling, Prototyping, POP Displays, Front Panel, ID & Asset Management Plates, Packaging...



M series

mioJEWEL

Compact, quiet and portable. For inside and outside engraving of rings and bangles. Footprint smaller than A4 size!



m20 series

An affordable engraving system that is convenient, easy-to-operate.
 M20 - Flat items engraver.
 M20 PIX - Photo engraver - personalization equipment for picture and text engraving.
 M20 PEN: engraving of pens and flat items.
 M20 Artfoil: hot foil transfer of text and logos.
 M20 JEWEL - to engrave on rings (inside and outside), medals, chain bracelets.



Dimensions - LxWxH (mm)	230 x 293 x 290 (9" x 11.5" x 11.5")
Engraving area (mm)	From Ø6 to 80
Z stroke (mm)	-
Net weight (kg)	6.5

Dimensions - LxWxH (mm)	340 x 310 x 310 (13.5" x 12" x 12")
Engraving area (mm)	100 x 100 (3" x 3")
Z stroke (mm)	30 (1.18")
Net weight (kg)	10

100 series

IS200 series

IS200, for personalising small objects, badges and plaques.



IS200 **IQ+**

IS400 series

A flexible professional engraving machine for trophies and plaques, small signage, identification of industrial parts and light machining.



IS400 **IQ+**

Dimensions - LxWxH (mm)	500 x 455 x 295 (20" x 18" x 12")
Engraving area (mm)	80 x 225 (3" x 9")
Z stroke (mm)	15 (0.59")
Net weight (kg)	20

Dimensions - LxWxH (mm)	435 x 610 x 893 (17" x 24" x 35")
Engraving area (mm)	305 x 210 (12" x 8")
Z stroke (mm)	40 (1.57")
Net weight (kg)	42

1000 series

IS6000

Three heavy-weight computerised engraving machines for cutting or machining. The XP engraving systems are fast, accurate, and powerful.



IS6000 **IQ+**

IS6000XP **XP**

IS7000



IS7000 **IQ+**

IS7000XP **XP**

Dimensions - LxWxH (mm)	1093 x 1015 x 735 (43" x 40" x 29")	1093 x 1015 x 735 (43" x 40" x 29")
Engraving area (mm)	610 x 410 (24" x 16")	610 x 410 (24" x 16")
Z stroke (mm)	80 (3.15")	80 (3.15")
Net weight (kg)	168	180

Dimensions - LxWxH (mm)	1093 x 1420 x 735 (43" x 56" x 29")	1093 x 1420 x 735 (43" x 56" x 29")
Engraving area (mm)	610 x 815 (24" x 32")	610 x 815 (24" x 32")
Z stroke (mm)	80 (3.15")	80 (3.15")
Net weight (kg)	220	230

m40 series

An affordably-priced engraving system that's fast and quiet for engraving functional and technical signage.
 M40 Deep Vice - Plates and bulky items engraving
 M40 GIFT - M40 with tooling for cylindrical parts and glass engraving. Ideal for the retail trade and gift shops.



M40Deep Vice / ArtFoil	M40Gift
550 x 615 x 425 (22" x 20" x 17")	750 x 540 x 570 (29.5" x 22" x 22.5")
305 x 210 (12" x 8")	305 x 210 (12" x 8")
40 (1.57")	40 (1.57")
20	35



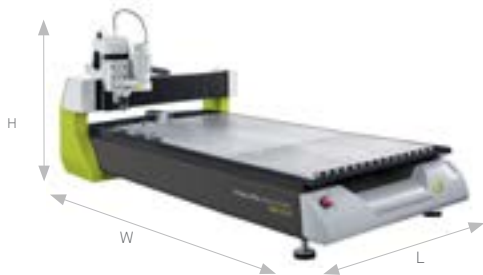
IS400 Volume

The future of engraving today, unique on the market.
 Easy marking on a curved surface thanks to the innovative iQ+ Terrain Follower.




IS400 Volume iQ+
900 x 615 x 840 (35.5" x 24" x 33")
305 x 210 (12" x 8")
40 (1.57")
90

IS8000

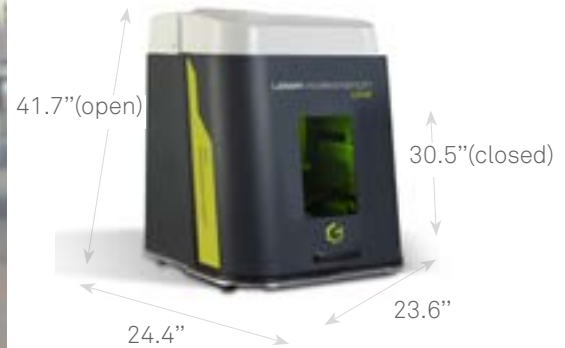


IS8000 iQ+	IS8000XP XP
1093 x 1825 x 735 (43" x 72" x 29")	1093 x 1825 x 735 (43" x 72" x 29")
610 x 1220 (24" x 48")	610 x 1220 (24" x 48")
80 (3.15")	80 (3.15")
265	280

	Technifor Fiber Series	Technifor Hybrid Series
		
Dimensions - LxWxH (mm)	375 x 139 x 202 (14.76" x 5.47" x 7.95")	730 x 258 x 230 (28.7" x 10.16" x 9.06")
Engraving area (mm)	up to 300 x 300 (12" x 12")	up to 300 x 300 (12" x 12")
Power (W)	20 - 30 - 50	10 - 20
Z stroke (mm)	-	-
Net weight (kg)	7 (15.43lb)	19.8 (43.65lb)
	Technifor Green Series	Technifor CO ₂ Series
		
Dimensions - LxWxH (mm)	730 x 258 x 230 (28.7" x 10.16" x 9.06")	730 x 258 x 230 (28.7" x 10.16" x 9.06")
Engraving area (mm)	up to 150 x 150 (5.9" x 5.9")	up to 150 x 150 (5.90" x 5.90")
Power (W)	5 - 10	20 - 30
Z stroke (mm)	-	-
Net weight (kg)	19.8 (43.65lb)	19.8 (43.65lb)

Gravotech Class1 Laser Enclosures

ENCLOSURES



Gravotech Laser enclosures create a safe standalone laser solution

ENGRAVING IS EVERYWHERE



Gravograph provides an extremely wide selection of jigs and holding devices, developed for and with customers.

For flat engraving



Standard celeron jigs
150 mm (5.9")
Ref. 10165



Aluminium jigs
150 mm (5.9")
Ref. 20189



Aluminium jigs
240 mm (9.5")
Ref. 21131



Large plate, aluminium
jigs
310 x 110 mm
(12" x 4")
Ref. 20191



Gravofoil™ vice
Ref. 22868



Gravogrip™
Several sizes available.
Please contact us for
more details. See p.15.



Support table +
Gravogrip™
Ref. 70997 for M20/
M20XL



Support table + Gravogrip™
Ref. 71116 for IS200
Ref. 45697 for M40

For jewelry items



Jigs for jewelry,
bracelets and medals
Ref. 28192



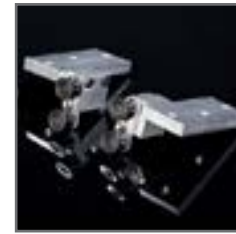
Watch/medal jigs
fits any shape
Ref. 10182



Signet ring jigs
with protection pad
Ref. 20194



Perfect for baby identity
bracelets
Ref. 22870



Jigs for rigid bangles
Ref. 51729



Jig for ring with large
stone
Ref. 30050



Jigs for wedding rings
Ref. 12500



Jigs for bracelets
Ref. 77961



Jigs for bracelets and
pendants
Ref. 77320

For gifts and tableware



Spectacle bow jigs
adjustable width
Ref. 20190



Cutlery jigs
with adjustable stops
Ref. 20129



Cutlery jigs
with relocatable pins
Ref. 22370



Celeron badge jigs
103 x 36 mm
(4" x 1.4")
Ref. 20128



Pen & tubular object jigs
Ref. 10169



Clip pen jigs
Ref. 20842



Multigrip jigs with
sliding pins & stops
Ref. 20196



Large plate/salver jigs
with relocatable pins
Ref. 20192



Cell phone jigs
Ref. 49510



Swiss army knife jigs
Ref. 28067

Specific applications



Circuit board jigs
with locating pins
Ref. 16638



Celeron unmachined
jigs
152 x 38 mm
(6" x 1.5")
Ref. 10179



Funeral plate jigs for M20
164 x 50 mm
(6.5" x 2")
Ref. 47697

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

Depth noses



Steel nose
Ø 0.7 mm (.03")
Ref. 20130



Steel nose
Ø 1.5 mm (.06")
Ref. 20131



Steel nose
Ø 4.6 mm (.18")
Ref. 21086



Steel nose
Ø 16 mm (.63")
Ref. 20960



.093 Steel nose cone for
1/4" cutters. Uses up to
(.060")
Ref. 20936



.093 Steel nose cone for
11/64" cutters. Uses up to
.060 cutter widths
Ref. 20486



.185 Steel nose cone for
11/64" cutters. Uses up to
.171 cutter widths
Ref. 12215



.250 Steel nose cone for
1/4" cutters. Uses up to
.187 cutter widths
Ref. 20491



8mm Delrin nose cone for
11/64" cutters. Prevents
scratches on easily
scratched surfaces
Ref. 31373

Vacuum noses



3.3mm nose cone and
nozzle assembly for collet
spindle chip collector
Ref. 32351
3.3mm nose cone only
for 11/64" or collet
spindle chip collector
Ref. 21665



1.5mm nose cone and
nozzle assembly for collet
spindle chip collector
Ref.32353
1.5mm nose cone only
for 11/64" or collet spindle
chip collector
Ref. 21666



Standard nose cone for
11/64" chip collector
Ref. 21667
8mm nose cone and
nozzle assembly for
11/64" cutters using
chip collector Uses up to
.171 cutter widths
Ref. 31372



2" Delrin nose cones for
11/64 spindle
Ref. 31377
2" Delrin nose cones for
collet spindle
Ref. 31376
Used for plastic cut outs to
handle high chip loads

Vacuum swivel noses



Teflon swivel nose
Ø 3.5 mm (.14")
Ref. 22481



5mm Steel Swivel nose
cone for 11/64" cutters.
For glass engraving and to
control depth on uneven or
curved surfaces
Ref. 20459



Swivel vacuum nose for
collet spindle
Ø 2.5 mm (.1")
Ref. 64189



Swivel vacuum nose for
collet spindle
Ø 5 mm (.2")
Ref. 64188

Long vacuum teflon noses



Ø 2.5 mm (.1")
Length 12 mm (.48")
Ref. 28061



Ø 2.5 mm (.1")
Length 22 mm (.87")
Ref. 28062



Ø 2.5 mm (.1")
Length 27 mm (1.06")
Ref. 28063

Specifics



Fixed diamond nose
Ref. 22884



Prismatic swivel nose
Ref. 22885



Feather touch
Ref. M20 : 81898
Ref. M40 : 81950
Ref. IS : 78465

Steel noses:

The most commonly used noses (resistant and highly polished for minimum plate scratching).

Teflon noses:

For engraving on easily scratched materials, such as metal.

Swivel noses:

For engraving on curved surfaces (steel or teflon).

Prismatic noses:

For engraving on jewelry items such as ID bracelets or bangles.

Vacuum noses:

Same as steel nose, can be linked to a swarf extractor.

Diamond noses:

Provides better rigidity & accuracy than a non-rotating diamond cutter - mainly used for photo engraving and jewelry.

Spindles



High-speed spindle
150W



High-speed spindle
750W



High-speed spindle
1000W

	150W	750W	1000W
IS400	Option	N/A	N/A
IS 6-7-8000 IQ	Option	Option	Option
IS 6-7-8000 XP	Option	Option	Option
IS 6-7-8000 XP MILLING	N/A	N/A	Standard
max rotation speed	60k rpm	24k rpm	60k rpm
Compatibilities	Regulating nose	High torque	Pneumatic clamp

Chips collector



Compact chip collector

A must-have accessory that keeps the machine clean and the job easier to engrave. Helps keep the workplace tidy.

	Compact chip collector	IS machines chip collector
Size - LxWxH (mm)	155 x 100 x 180 (6" x 4" x 7")	290 x 290 x 540 (11.4" x 11.4" x 21")
Weight (kg)	1.3	23
Max. air flow (m³/h)	20	25
Max. static pressure (kPa)	2.2	7.3
Compatible with	M20 - M40 - IS200	100 Series - 1000 Series

IS machines chip collector

Bevelling machines



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

VA2

Only one bevelling angle (45°), but able to tackle material up to 6 mm (.236") thick + with integrated swarf extractor.

B4

The most basic version of the three machines, able to bevel up to 1.6 mm (1/16") thick material at either 45° or 90°. No swarf extractor.
Size: 310 x 160 x 120 mm (12.2" x 6.3" x 4.7").



B6

Up to 3.2 mm (1/8") material thickness, integrated swarf extractor, 45° and 90° angles, adjustable in depth and height and supplied with a set of accessories for cutting rounded corners. The professional engraver's choice.
Size: 500 x 340 x 300 mm (19.7" x 13.4" x 11.8").



Saws



VA10 / VA11

Different versions of the safety saws are available, depending mainly on the material size and thickness customers want to cut. These saws are able to cut most materials (i.e. plastic, acrylic, brass, aluminium, etc).

		VA10	VA11	VA21/15
Size - LxWxH (mm)		830 x 550 x 250 (33" x 22" x 10")	910 x 550 x 250 (36" x 22" x 10")	1280 x 551 x 250 (51" x 22" x 10")
Max. cutting length (mm)		620 (24")	665 (26")	1030 (40")
Max. material thickness (mm)	Plastics	6.3 (.248")	7 (.276")	7 (.276")
	Gravoxal™ / Gravobrass™	4 (1/6")	5 (.20")	4 (.20")
	Gravostrat™	6.3 (.248")	7 (.276")	7 (.276")
	Aluminium profiles	-	15 (.59")	15 (.59")
Vacuum extractor		Yes	Yes	Yes

VA21/15

Shears



Combination metal and plastic shear

- The lower blade is easy to set and replace
- The handle offers leverage for easier cutting
- There is no flex on the upper blade
- Three scale selections optimize the settings of blades
- There is no need to adjust the upper blade
- Improved angles on the upper blades result modular in design
- Parts are easy to replace because the shear is in smoother cutting

Shear cutting thickness specs:	Metal	Plastic	Combo
Flexible Plastics		1/16"	1/16"
Trophy Brass	0.025"		0.020"
Plastics	0.025"		0.030"
Metals	0.025"		0.015"
Part Number	20199	20198	31711

Replacement Blades

	Metal	Plastic	Combo	All
Upper Blade	Current Model* black table & silver handle	31723	31732	31716
	European Model white table & black handle	20201	10205	n/a
	Original Model gray or orange	31714	31729	n/a
Lower Blade				31733
				10204
				31730

*Shown above

Shear blade sharpening service

- Lower shear blade
36683
(metal, plastic or combo)
- Upper plastic shear blade3 36685
- Upper metal shear blade3 36684
- Upper combo shear blade3 36682

The CSC is a special corner cutting shears, featuring in option many different corners.

(shapes shown are not actual size)



Part Number	Description - cornermate unit
32200	Manual (base only)
32201	Decorative 3/8
32202	Decorative 1/2
32203	Decorative 5/8
32204	Round 1/8
32205	Round 1/4
32206	Round 5/16
32207	Round 3/8
32208	Round 1/2
32209	Scalloped 1/4
32210	Scalloped 3/8
32211	Scalloped 1/2
32212	Notch 1/8
32213	Notch 1/4
32214	Notch 3/8
32215	Notch 1/2
32216	Hole punch 4 position unit
32217	Step 1/4
32218	Step 3/8
32219	Slot
32220	Ornamental 3/8
32221	Ornamental 1/2
32222	Ornamental 5/8

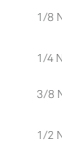
Capacity (corner only)	
Brass	030
Aluminum	.040
Steel	.015
Plastic	160

- Channel aluminum cutting table
- Accepts cutting units 5/8" or smaller
- Portable 9 1/2" L x 6" W x 4 1/2" H x 3lbs

Ornamental



Notch



Oncut Corner Shaper Sharpening Service
Corner shaper blade
36251

Resharps custom shapes available

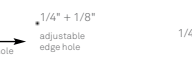
Hole Punch



Decorative



Step



Round










Scalloped



CO₂ Laser parameters for: LS100, LS100Ex (40 W)



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








Plastics Laser								Dpi	Thickness	Comments
	Power	Speed	Passes	Focus	Refocus	Air	Type			
Gravoply™ Laser	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	80%	30%	1	-	Before	yes	Cutting	500	0.8mm (.030")	
	100%	28%	1	-	Before	yes	Cutting	500	1.3mm (.050")	
Gravoply™ Ultra	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	70%	40%	1	-	Before	yes	Cutting	500	0.5mm (.020")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6mm (1/16")	
	100%	10%	1	-	Before	yes	Cutting	500	2.4mm (3/32")	
Gravoply™ 2	10%	100%	1	-	Before	no	Vector	500	-	
	50%	100%	1	-	Before	no	Raster	500	-	
Gravoglas™ 1	80%	40%	1	-	Before	no	Vector	500	-	Subsurface engraving
	80%	40%	1	3.0mm (1/8")	Before	no	Raster	500	-	Subsurface engraving
	100%	18%	1	-	Before	yes	Cutting	500	1.5mm (1/16")	Keep the plastic film on
	100%	10%	1	-	Before	yes	Cutting	500	3.0mm (1/8")	Keep the plastic film on
	100%	5%	1	-	Before	yes	Cutting	500	5.0mm (.20")	Keep the plastic film on
Acrylic	30%	100%	1	-	Before	no	Vector	500	-	
	60%	100%	1	-	Before	no	Raster	500	-	
	100%	8%	1	-	Before	yes	Cutting	500	3.0mm (1/8")	
	100%	5%	1	-	Before	yes	Cutting	500	5.0mm (.20")	
	100%	1%	1	-	Before	yes	Cutting	500	10mm (.40")	
Gravotac™ Exterior	50%	20%	1	-	Before	yes	Cutting	500	0.8mm (.030")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6mm (1/16")	
Flexilase™	10%	100%	1	-	Before	no	Vector	500	-	
	30%	100%	1	-	Before	no	Raster	500	-	Gravogrip advised
	100%	5%	1	-	Before	yes	Cutting	500	0.25mm (.01")	
Sticklase™	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	Gravogrip advised
	20%	30%	1	-	Before	yes	Cutting	500	0.09mm (.004")	
Gravostrat™	50%	60%	1	-	Before	no	Vector	500	-	
	100%	60%	1	-	Before	no	Raster	500	-	
Rubbalase™	100%	20%	1	-1.5mm (-1/16")	Before	no	Vector	500	-	
	100%	20%	1	-1.5mm (-1/16")	Before	yes	Raster	500	-	
	100%	5%	1		Before	yes	Cutting	500	2.2mm (.087")	

The purpose of this document is to help each engraver get an idea as to how to engrave on Gravograph laserable materials.

The parameters are sorted by product range. Every material can have up to 3 different types of engraving process:

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

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

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

TECH TIPS

Floating Pin Table Cutting - When using a floating pin table, place an aluminum plate under the strips to avoid laser reflection to prevent engraving under the material.

Gravogrip™ Raster - Use Gravogrip™ when engraving on thin materials as they can have uneven surfaces.

- Avoid using too much power when engraving to prevent damage to the Gravogrip™ plate.

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

Global reach

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



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The Gravotech Group represents a worldwide network present in 30 countries with more than 900 employees working around the clock to provide customers with exceptional permanent marking solutions. As a global leader in durable marking technologies such as engraving, laser, dot-peen and scribing, we utilize our expertise to develop and market equipment, software and consumables for every application, from personalization to architectural signage and industrial part marking.

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At Gravotech, quality is much more than a norm or a concept it is a state of mind driven by continuous improvement.

For over 75 years, we have been committed to upholding these values and doing our utmost to meet your most demanding requirements. In that spirit, we created the Gravotech Quality Charter, which covers a number of technical characteristics that define the quality of our premium products.



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