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nameplates

- DIGITAL PRINTING
- LASER DIE CUTTING
- ETCHING
- DOMING
- EMBOSSING
- METALPHOTO

A FAMILY OWNED AND OPERATED COMPANY SINCE 1870

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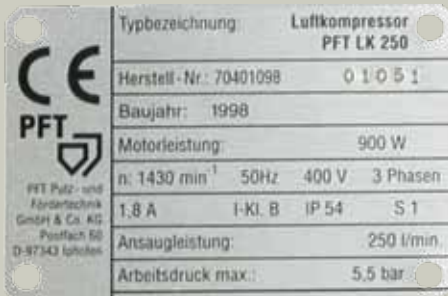
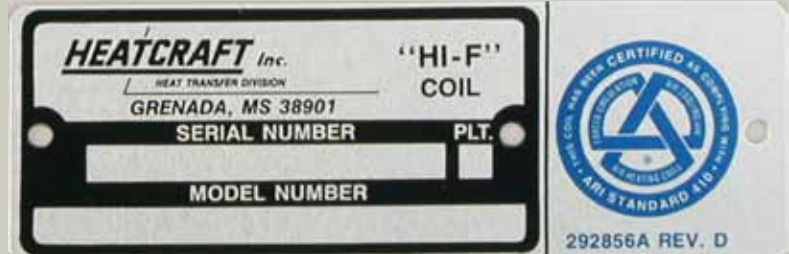
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METAL NAMEPLATE

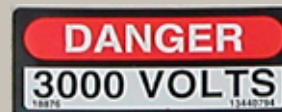
MODEL AND SERIAL NUMBER PLATES

These plates provide important information necessary for warranties and limitation of product liability. Serialization and variable data may be stamped on these plates for a nominal cost.



WARNING AND INSTRUCTIONAL PLATES

Manufacturers, in an effort to reduce product liability, and to instruct operators in the proper operation of their equipment, will frequently use this label. In addition these parts can be supplied in accordance with American National Safety Institute (ANSI) specifications.



METAL NAMEPLATE

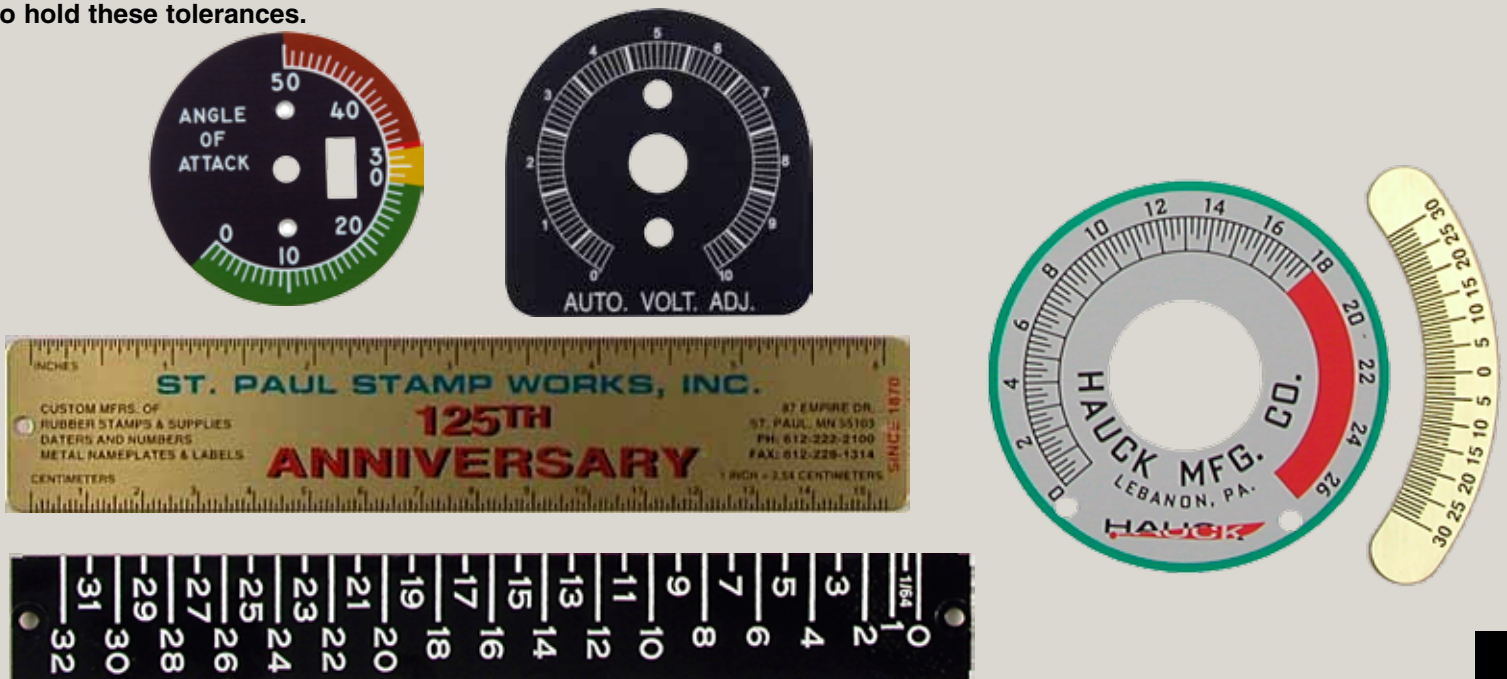
DECORATIVE TRIM PLATES

Our Stonewear Process Metal Plates are printed to your specification and overcoated with a tough baked on finish. These plates are used as a decorative part of a quality product, and are made to the highest standards of the nameplate industry. In addition to our overcoat, all decorative trim nameplates have a removeable premask to protect against scratches. Please specify decorative trim nameplates if you desire these unusually high standards.



SCALES

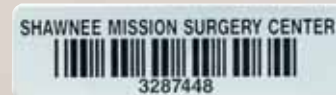
Where precise measurements are required, reproduction of increments can be held to $\pm .005''$. Please specify your need to hold these tolerances.



METAL NAMEPLATE

BAR CODE / UID PLATES

Bar coding improves the efficiency of asset control with optically readable data. It is available in linear, parallel lines or condensed two dimensional (2D) formats. Bar codes are reproduced photographically on sealed, anodized aluminum ranging in thickness from .003 inches to .060 inches, resulting in one of the most durable plates available. Tolerances on bar code widths can be held to .001 inches.



PROMOTIONAL PLATES

Unique promotional ideas! Metal plates are very distinctive and they gain the attention of prospective customers at a reasonable price.



LABELS

ALUMINUM FOIL

Our foil stock is .002" dead soft aluminum. This allows the customer to indent variable information onto the label with a conventional typewriter or by hand. (The carbon from most typewriters will not adhere to this material). Most customers prefer the labels left in strips for ease of typing. These labels can be laminated for extra durability. NOTE: Please specify if you wish to have your labels left in strip form.



POLYESTER (MYLAR)

NAMEPLATES trade name for these labels is Stonewear Process Mylar Labels. These labels are extremely durable due to the fact that they are laminated with a protective covering. **NAMEPLATES** also can provide these labels with serialized numbers.



SPECIAL PLATES

DIGITAL PRINTING

Digital printing is a relatively new technology which allows us to print multiple colors simultaneously via four color process. Additionally we can bypass the processes of making screens or litho plates. By using a four color process you can significantly improve the appeal of your plates with relatively low set up costs.



ETCHED PLAQUES & SIGNS

Etched plaques and signs have recessed letters which adds both beauty and durability. Etched stainless steel is probably the most durable of all the materials and is available in up to .125" thick. Etched bronze is a cost effective and very attractive alternative to the cast bronze products.



SPECIAL PLATES

EMBOSSED METAL

Embossing conveys a sense of strength that is not available in any other type of plate. The 3-D look can be furnished in conjunction with one of our printing processes to accentuate your image or without color (blind emboss.) On most embossed plates there is a one time die charge.



DOMED LABELS

Domed labels are a decorative way to enhance your company name or logo. The clear resin of .040 - .060 thick over the label makes the image stand out.



SPECIAL PLATES

DOG TAGS

Dog tags have become popular as promotional items. We can supply official rolled edge military style (1.120" x 2" x .014" stainless steel) with customized copy, or a similar 1.187" x 2.062" tag which is available in any of our stocked materials and in thicknesses ranging from .016" to .032". The 1.187" x 2.062" size tag can be etched, printed or embossed to fit your special needs.



ETCHED METAL

Etched metal nameplates are one of the most beautiful and durable of all nameplates, the etching process creates a relief of .003 - .005 deep so that even if the paint wears off the image will remain. We can manufacture these plates in all of our stocked metals in thicknesses ranging from .018" to .125". Larger plates can serve the purposes of commemorative plaques or stunning signage. If even more relief is required ask about etched zinc plates.



SPECIAL PLATES

PHOTOSENSITIVE

These parts are extremely durable, they have been tested for up to 20 years of UV exposure, and can be produced with the finest detail. The extended durability only applies to black images. In addition to these qualities photosensitive plates are an excellent choice for prototypes, short run orders or parts that have to meet military specifications.

LOBBY



A vertical business card with a black background and white text and graphics. On the left is a large white treble clef. To its right, the name "Nicole Preste" is printed. Below the name is the title "Tour Manager Merchandising Production". At the bottom, contact information is listed: "cell: 612.669.2002", "email: nicolepreste@hotmail.com", "screen name: nicole1m or innocentkisses23", and "MINNEAPOLIS MN".

A rectangular sign with a tan background. At the top is a stylized American flag with stars and stripes. Below the flag, the words "Support Our" are written in a cursive font. Underneath that, there are six stars in a row, followed by the word "TROOPS" in large, bold, black, sans-serif capital letters.

A rectangular sign with a light gray background. At the top, the text "FOOT CONTROLS" is printed in bold. Below this, there are two black rectangular boxes. The left box contains two white curved arrows pointing in opposite directions, with the word "SWING" printed below them. The right box contains the words "UP", "HOLD", "DOWN", and "FLOAT" stacked vertically. At the bottom left corner, the number "35381" is printed.

A technical drawing of a hoist adapter. At the top, the part number "74D750088" and the name "HOIST ADAPTER" are printed. The drawing shows a detailed view of the mechanical component with various parts labeled with letters and numbers. At the bottom, the number "76001-740755068-2001" is printed.

A rectangular sign with a light gray background. At the top, the text "LUND BOAT COMPANY" is printed in bold, followed by "DIV. GENMAR INDUSTRIES" and "NEW YORK MILLS, MN. U.S.A." Below this, "SV 14 15" is printed. In the center, there is a graphic showing a person icon, a plus sign, a suitcase icon, and an equals sign followed by "415 Kg". Below this, "kW" is printed next to a propeller icon, followed by an equals sign and "35". On the right side, there are three stacked certification logos: the CE mark, the International Marine Contractors Association (IMCA) logo, and the C mark.

METAL MATERIAL STOCK

nameplates

NAMEPLATES stocks a variety of materials to suit many different identification needs.

ALUMINUM

The bulk of the metal nameplates manufactured today are made of 1100 or 3003 alloy aluminum. This material is light-weight and relatively inexpensive.

Actual Thickness

.002" Aluminum – (Stocked with an adhesive back.) This material is very soft and is excellent for use in a typewriter which allows the customer to add any last minute or variable information.

Actual Thickness

.012" Aluminum – This material is very flexible and is generally used as an insert to formed plastic parts.

Actual Thickness

.016" Aluminum – This material is thick enough to supply some structural stability, yet it is easy to work with for forming or embossing operations.

Actual Thickness

.020" Aluminum – The most popular of the aluminum series. This material combines good structural stability with economy.

Actual Thickness

.025" Aluminum – This material is preferable to .020" aluminum when nameplates require both serializing and adhesive backs.

Actual Thickness

.032" Aluminum – This material has considerable structural stability and is desirable for plates that require large amounts of information to be stamped into them, and especially those that require adhesive backs.

Actual Thickness

.050" & .064"

Actual Thickness

Aluminum – It is generally used on very large nameplates such as control panels.

Actual Thickness

.125"

Aluminum – This is our thickest in-stock material. It is generally used on heavy duty cases or as a commemorative plaque.

STAINLESS STEEL

This material is probably the most corrosive resistant metal from which nameplates can be manufactured. All thicknesses stocked in 304 series.

Actual Thickness

.018" Stainless Steel – This material has the same advantages as .020" aluminum.

Actual Thickness

.024" Stainless Steel – Also available in extremely durable 316 series.

Actual Thickness

.030" Stainless Steel – Available in 316 series and 430 series (magnetic). This material is generally called for when the nameplate must withstand great extremes in abrasion and corrosive atmospheres.

Actual Thickness

.050" Stainless Steel – Also available in 316 series.

Actual Thickness

.062" Stainless Steel – This material is generally used for larger signage.

Actual Thickness

.125" Stainless Steel – Appropriate for large outdoor signage & decorative plaques.

BRASS / BRONZE

These are the richest of all nameplate materials. Few metals can match their appearance and durability.

Actual Thickness

.020" Brass – A beautiful material at an economical price.

Actual Thickness

.025" Brass – This material is frequently used for plaques. For that reason we stock a particular type of leaded brass which allows easy engraving for personalization.

Actual Thickness

.032" Brass – Also available in a beautiful **Bronze**.

Actual Thickness

.064" Brass – Also available in .050" thick beautiful **Bronze**.

Actual Thickness

.125" Brass – Also available in a beautiful **Bronze**.

AVAILABLE ADHESIVES



Adhesives offer easy application and are very popular. Surfaces must be properly prepared and directions followed or proper bonding will not occur. Generally speaking, surfaces must be clean, smooth and at room temperature.

467MP .002 thick
Adhesive Family No. 200MP

High performance adhesive has excellent peel strength on metal and high surface energy plates. Good long term aging up to 400°F short term heat resistance with medium solvent resistance.

468MP .005 thick
Adhesive Family No. 200MP

Thicker version of 467 for adhesion to textured surfaces.

583 .002 thick

Thermo-Bond adhesive. Heat or solvent activated dry film adhesive up to 350° F.

7966mws .009 thick
Adhesive Family No. 200MP

Double coated white adhesive with excellent temperature, chemical and UV resistance. High shear strength. Designed to add opacity to light colored polycarbonate or polyester labels

9453 .0035 thick
Adhesive Family No. 300LSE

High Strength modified acrylic adhesive. Designed to bond to low surface energy plastics and powder coated painted surfaces. Up to 300°F short term heat resistance.

9445 .005 thick
Adhesive Family No.
350 High Holding

Excellent temperature and solvent resistance, high bond to low surface energy substances. Up to 450°F short term heat resistance.

950 .005 thick
Adhesive Family No. 300

High strength acrylic adhesive similar to 9453 only thicker for textured surfaces.

Foam .032 thick
(black)

Adhesive designed for very rough surfaces. Cross-linked, closed cell polyolefin foam with acrylic adhesive up to 175°F short term heat resistance.

Adhesive Properties *Reprinted from 3M Converter Markets Product Select Guide*

Adhesive Family	Adhesive Properties*				Adhesion To:			Environmental Performance Resistance To:				Temperature °F (min./hr.)			Products
	Peel		Shear		Metal	Plast. HSE	Plast. LSE	Chemical	Ultra Violet	Plasti-cizers	Humidity	Minimum Application	Service		
	Initial	Ultimate	Room Temp	150°F									Low	High	
Acrylic #300LSE															
High Strength	7	9	8	8	9	10	10	7	7	4	9	50	-40	300	9471LE
#200MP															
High Performance	4	10	10	10	10	9	1	9	10	5	10	50	-40	400	467MP 468 MP
#300															
High Strength	6	7	4	1	7	9	9	6	7	3	8	50	-40	250	950
#350															
High Holding	7	9	8	8	9	10	10	8	7	4	9	50	-40	450	9445

METHODS OF MANUFACTURING

nameplates

DIGITAL PRINTING

This is an ideal method for vibrant 4 color process graphics and variable data on plastics and some metals. Digital printing eliminates the need for screens and printing plates.

LASER MARKING

This is a great process to mark variable data and graphics in coated and uncoated metals, plastics, glass and other substrates. The laser beam can vaporize the coatings off of coated metals or anneal marks into natural metals. The laser can also be used to cut special shapes with tight tolerance on many materials reducing the need for tooling.

STONEWEAR PROCESS

Stonewear Process is our trade name for the top of the line in lithographed plates. In this method the copy is printed on, baked at high temperatures, then coated with a clear, tough coating that resists abrasion, sunlight and chemicals. The customer's major advantages in specifying **Stonewear Process** nameplates are excellent reproduction of fine detail, multiple colors, and reasonable cost.

EMBOSSING

The copy on these plates is raised by stamping the material under great pressure between two mated embossing dies. This relief makes embossed plates extremely durable. When combined with **Stonewear Process**, these plates become our most decorative nameplates.

SILK SCREENING

These nameplates are produced in much the same manner as in the **Stonewear Process**. The principle advantages of this process include better coverage of large areas of solid color, and retardation of fading because of thicker coverage.

ETCHING

In this process the legend is chemically recessed into the surface of the metal for durability against the most severe environmental conditions.

PHOTOSENSITIZED

In this process, copy is produced by embedding color dies into the pores of the aluminum itself. The material is then sealed, producing a product with greater durability than lithographed or silk screened plates. Photosensitized nameplates are relatively inexpensive in limited quantities, and can be produced quickly.

DOMED LABELS

When a decorative touch is needed the "domed" label process heightens your corporate logo and the products image. This unique, flexible process creates a 3-dimensional surface which is virtually indestructible to scratches and dents. It is poured approximately .060" thick on top of your graphics and cured. It is not recommended for extended exposure to sunlight. Standard adhesive is .001" permanent acrylic. Special adhesives are available for hard to adhere to surfaces. Please indicate the type of surface the label will be placed on for a custom quote.

STAMPING

The copy on these plates is recessed by stamping into the metal with steel type. The customer's major advantage is that these tags have virtually equal durability with etched plates without the cost. For this process copy is generally set with existing steel type, but a special steel die can be produced if other typestyles are required.

HOT STAMPING

In this method a hot stamping foil is melted onto the plastic nameplate, so pigment is permanently heat transferred from the foil to the plastic. This process is particularly appropriate for decorative uses and is especially cost effective for small quantities. Please note that because these nameplates are not laminated they are subject to wear and solvent abuse.

GENERAL INFORMATION

nameplates

DESIGN SERVICES

NAMEPLATES offers a complete design and art department to help transform your ideas into a clear, detailed nameplate or label. Upon receipt of an order, and at your specification, we will gladly send you a photographic proof of your nameplate or label before actual production begins.

SHAPES AND SIZES

Square or rectangular nameplates or labels can be made in all sizes without requiring any special tooling. However, if you need any unusual shape or require close tolerances, tooling may be required. Over the years we have developed an inventory of many dies for both metal nameplates and labels, so frequently we can supply the tooling you need at no additional charge. In those cases where tooling is required and we do not have the stock die we will need to charge for tooling. This charge, however, will be made on your first order only. Some materials can be fabricated via laser without incurring additional tooling charges.

IMPORTANT FACTORS IN NAMEPLATE PRICING

There are four important factors in nameplate pricing:

- quantity
- size
- number of colors
- mounting methods

(i.e., use of adhesive, or number and size of holes for mechanical mounting).

UNSPECIFIED INFORMATION

There are many minor items that are generally unspecified in purchase orders that we receive. Examples of such items are tolerances, existence of registration marks and surface scratches. In regard to these and other matters, **NAMEPLATES** abides by industry standards as specified by **GPI** (National Association of Graphic and Products Identification Manufacturers, Inc). An abridged copy of these standards will be sent to you free, upon request.

FINISHES

METAL NAMEPLATES

Epoxy finishes are resistant to abrasion and solvents, but are susceptible to fading caused by ultraviolet sunlight.

Acrylic finishes resist solvents and sunlight but are generally not as hard as epoxy surfaces.

Both epoxy and acrylic finishes can be provided in glossy or matte appearance.

LABELS

On all laminated labels the customer has a choice of either a glossy or matte finish.

MOUNTING

METAL NAMEPLATES

Mechanical methods involving applications by screws or rivets are used where permanence takes priority over convenience. Mounting holes of nearly any size can be placed anywhere on the nameplate that your needs require.

LABELS

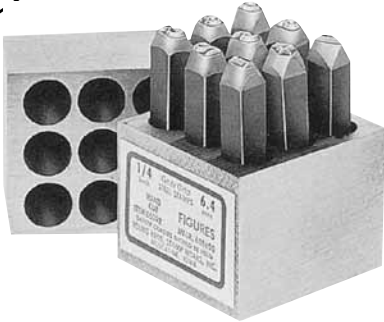
All labels are supplied with permanent pressure sensitive adhesive backs.

Adhesive descriptions are on page 12 of this catalog.

METAL MARKING DEVICES

nameplates

In addition to supplying your complete nameplate and label needs, **Nameplates** has a full line of metal marking equipment. Additional specific information on a wide range of marking equipment is available on request.



INDIVIDUAL STEEL LETTER AND FIGURE SETS

STANDARD

Hand held and struck with a hammer, these stamps are used for occasional marking of constant copy or frequent marking of changeable data. A good all around quality for medium use.

Hevi Bevel is also available for your extra heavy duty use.

ENGRAVED STEEL DIES

HAND HELD

Engraved steel dies are engraved on the best grade of tool steel, carefully machined and hand finished, then hardened to just the right temper to suit the material to be stamped. Lettering can be flat, curved, concave or convex to fit any shape surface.



PRESS TYPE



INSERT

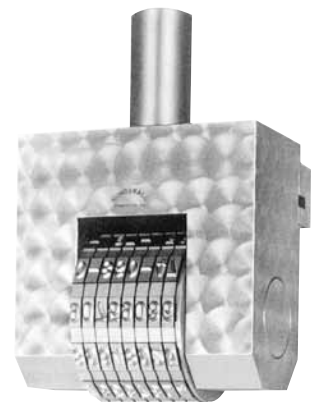


NUMBERING HEADS

MODEL 73

An excellent numbering head, for very low cost. Wheels are turned manually by use of a spanner wrench which is supplied with each machine.

Model 50 also available



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METAL MARKING DEVICES

HAND NUMBERING WHEELS

MODEL 70

For stamping uniformly aligned numbers. Faster than setting type in holder. Shank made of heavy duty one-piece construction.



MODEL 80

Same as Model 70, except contains a quick change wheel, turned by outside knob for rapid numbering.



TYPE HOLDERS & STEEL TYPE

UTILITY HOLDERS



For stamping repetitive data with few changes. Type can be changed by removing the shepard pin and inserting new type. Not recommended for use on Stainless Steel or when many changes in copy take place. Used for stamping with a hammer or in a punch press.

P. H. 50 Holder also available.

DETAIL PRESS

MODEL 40B

The Model 40B detail press automatically aligns and spaces the letters for professional stamping of variable copy. An additional advantage of the Model 40B is that the letters are struck to a uniform depth. To operate simply dial to letter or number desired and press handle down. Character sizes available in 1/16", 3/32", 1/8", 5/32", and 3/16".



METAL STAMPING ELECTRIC TYPEWRITER

MODEL TMI 2000



For mass production of variable copy nameplates. Can be computer controlled.

REQUEST FOR QUOTE SHEET

Company _____ Date _____

Address _____ Phone _____

_____ Fax _____

Contact name _____

Email address _____

Marking method: Printed _____ Digital _____ Domed _____ Etched _____

Embossed _____ Engraved _____ Photosensitive _____ Other _____

Part size _____ Material _____ Thickness _____

How many colors? _____

Does ink bleed off edge of part? _____ Is logo involved? _____

No. of holes _____ Slots _____

Adhesive _____ Corners: Square _____ Round _____

Serialized _____ Character size _____ Color filled _____

Indoor _____ Outdoor _____ Decorative _____

Type of surface part will be applied to: _____

(such as type of plastic, type of paint if painted, etc.)

****please be as specific as possible****

Describe the environment plates will be subjected to: _____

****Standard Tolerance is +/- .015 - If tighter tolerance is required please specify

****Application for Macintosh: Adobe Illustrator CS6, Quark 9.0, Photoshop CS6, or Adobe InDesign CS6.

Format file: Vector art saved as; ai, eps, pdf, tiff, pict. With tiff and pict files we need CMYK and a minimum of 300 dpi.

Quantities: _____

Additional comments: _____

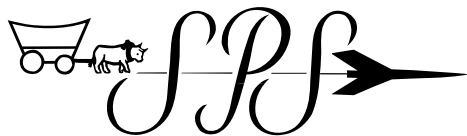
Please send print or sketch if available.

NOTES OR AREA FOR SKETCH

(If Blueprint Available - Please Send)

A DIVISION OF

St. Paul Stamp Works, Inc.
87 Empire Drive • St. Paul, MN 55103



Marking equipment since 1870

