

Fabrication and Capabilities

Chemetal has extensive experience working with aluminum, brass and HPL metals. We've recently expanded our aluminum cutting, shaping and design services. Many of these capabilities are seen in new design materials recently introduced and are also available for custom designs.

Cutting

Chemetal offers custom metal cutting including shear, punch, CNC routing, and fiber laser. We also create metal "edge banding" strips from almost all of our materials.

Shear & Punch

- Thicknesses up to .090" and max 10' length
- Straight line cuts up to 10' long
- Holes of varying size and shape

CNC Routing

- Thicknesses up to .250" and max 10' length
- Available finishes: aged, and brushed
- Custom shapes, perforations and cutouts

Fiber Laser

- Thicknesses up to .250" and max 10' length
- See Surface Mode Collection for standard designs.



Materials

Custom fabrication capabilities are dependent on the types of metal and thicknesses of the materials specified.

	Aluminum	Copper	Brass
Standard Thickness	.020" and .090" up to 4' widths	.016" up to 2' widths	.016" up to 2' widths
Custom Thickness	Up to .250"		Available with lead time
Available Finishes	Anodized, mill, brush patterns, aged	Aged, patinaed, brushed	Aged, brushed
Cutting Options	Shear & Punch, CNC Routing, Fiber Laser	Shear & Punch	Shear & Punch, CNC Routing

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Laser Etching

Chemetal can laser etch the surface of parts with type or shapes and designs. This effect can be especially dramatic on designs like darker anodized aluminums where the underlying light grey aluminum is revealed.

- Deep engraving: CNC routing in .090" thick aluminum
- Light engraving: CNC laser etching in all metals
- Patterns can be text, geometric shapes, and other custom illustration and designs



Embossing

Chemetal offers standard embossed, debossed and textured metal designs in both solid aluminum and HPL metals. We can also create custom textures and embossings.



Forming

We have the capability to brake-form custom metal pieces in aluminum up to .125". Files or physical examples are needed in order to determine feasibility.



Lamination

Our HPL metals are supplied on a high pressure laminate backer. Additionally, we can add a low pressure laminate backer to any standard solid metal material. An adhesive backer can be added to full or partial sheets and smaller strips. The adhesive backer is not repositionable once placed on a substrate.

Design

We can work with customer supplied files including .dwg, .dxf, .ai, .eps, and vector .pdf's. Files must have clean, usable linework. Additional charges may apply if the file requires manipulation. We can also create files from your specification with possible charges depending on complexity. Prototypes require a minimum \$250 up front credit card charge.