

**SNAPSHOT:**

**Prices Beginning at:** \$50

**Production:** 1 part per day

**AT A GLANCE:**

Parts are produced when 3D data files are loaded into a CAM program to generate G and M codes, user-defined codes creating paths which a milling tool will follow and instructions on providing fluids during milling, respectively. Customer specified material is secured in place inside the CNC machine using a t-slot table or vice. Operation begins and the loaded bit mills the finished product.

**PERFECT FOR:**

Aluminum Tooling, Prototype Models & Patterns, Secondary Machining Operations

**NOTABLE CUSTOMERS:**

Safariland LLC, Corvette America, Flight Avionics

# CNC Machining

## ATTRIBUTES



DESIGN  
VERSATILITY



PRECISION



PRODUCT  
CONSISTENCY



RAPID  
PRODUCTION

## Creative Strategy

### SIZE & COMPLEXITY

- Maximum 22" x 30" x 16"
- Wall depths have a limit of 1"

### MATERIALS

- Aluminum, Brass, Magnesium, Nickel, Steel: Alloy, Carbon, Stainless, Thermoset Plastics, Titanium, Zinc

### RADIUS

Inside corners will include a radius due to the round tipped tool used in the milling process.

### WALL THICKNESS

Variable wall thickness on CNC parts is acceptable but with a suggested minimum thickness of .020" to ensure walls do not collapse or fracture.

### SURFACE FINISH

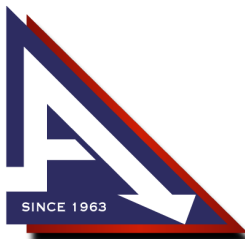
As material passes through the cutting area of a milling machine, the blades excavate bits of material at uniform intervals therefore creating ridges, known as a milled surface displaying tool marks.

- De-burring, Remove Sharp Edges
- Media Blasting, Matte Finish
- Sand Blasting, Matte Finish

### TOLERANCES

Allowable variation for any given size in order to achieve proper function when considering the design intent. As with all molded products, part material's shrink value should be considered when building your pattern and mold.

- $\pm .005"$



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