

Manufacturing Capabilities

5-AXIS MILLING

Envelope Size

Maximum Size (3 Axis): 26" x 18" x 5"

Maximum Size (5 Axis): 16" x 16" x 5"

Minimum Size: 0.15" x 0.15" x 0.15"

Tolerances

Standard Tolerance for Metals: ± 0.005 "

Standard Tolerance for Plastics: ± 0.008 "

Tighter tolerances to ± 0.001 " available, depending on geometry.

Features

Holes with diameters as small as 0.020"

Features with radii as small as 0.032"

TURNING WITH LIVE TOOLING

Envelope size

Maximum size: $\varnothing 10$ " x 12"

Minimum size: $\varnothing .125$ " x $.625$ "

Tolerances

Standard Tolerance for Metals: ± 0.005 "

Standard Tolerance for Plastics: ± 0.008 "

Tighter Tolerances to ± 0.0005 " available, depending on part geometry.

Features

Holes with diameter as small as 0.020"

We support OD and ID grooves and threading.

MATERIALS

Aluminum Alloys

6061, 7075, 2011, 2024, MIC-6

Stainless Steel

303, 304, 316, 416, 17-4PH

Plastics

ABS, Acetal, HDPE, LDPE, Nylon 66, PEEK, Polycarbonate, PEI (Ultem®), PTFE, UHMW

Copper, Brass, and Bronze

101 Copper, 110 Copper, 260 Brass, 360 Brass, 464 Brass, 936 Bronze

Steel

1018, 1020, 1040, 1045, 1117, 1144, 12L14, 4130, 4140

FINISHES

All finishes available to Military, AMS, and SAE specification standards

Alodine

Anodizing, Hard

Anodizing, Sulfuric

Chem Film

Electroless Nickel

Media Blasting

Passivation Type II, VI, VII, VIII

Powder Coating

Tin Plating

...and more

NEED SOMETHING ELSE?

Just ask.

Special order materials, other finishes, tighter tolerances, and other services available on a case-by-case basis.

contact@plethora.com