

## PROGRESSIVE METAL SERVICE

MACHINING - LIQUID NITRIDING  
COATING - FABRICATION

**WHO WE ARE:** Progressive Metal Service is a manufacturing company serving such industries as Oil & Gas, Aerospace, U.S. Military and Construction since 1981. Our ability to furnish jobs "turnkey" allows you to secure the best prices and delivery for your company.

**QUALITY SYSTEM:** ISO 9001:2008

### **MACHINING:**

- CNC turned parts up to 22" OD X 80"LG
- CNC milled parts up to 80"W X 120" LG X 60"H
- 5th Axis CNC table-type 72"W X 72"LG X 72"H with spindle travel of 48" with pallet changer
- Manual milling capacity 96"W X 96"LG X 96"H
- Mill support up to 30,000 lbs
- EDM - Max Wire capacity 10"W X 13"LG X 6"T
- EDM - Max Sinker capacity 20" W X 20" LG X 16"T
- Grinding- Blanchard 36" OD, surface grinder 24"W x 58"LG
- Materials: ferrous, non-ferrous, and plastics

**COATING:** xylan, moly, phosphate, and oil to your specifications. We utilize our vendors for all other coating needs you may require.

### **LIQUID NITRIDING:**

- maximum part length 47"
- maximum part diameter 35"
- 1500 LB. capacity hoist

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## Benefits that can be realized through Liquid Nitriding Treatments:

- Enhancement of surface properties like superior wear resistance, corrosion resistance and anti-galling properties
- Surface lubricity is increased greater than a hard chrome plated surface with and without lubrication
- Fatigue strength is increased and is attributable primarily to the strengthening effect of nitrogen in the diffusion zone
- Used as an alternative method for surface heat treatment process such as hardening, hard chrome plating with equivalent or better properties
- Decorative black surface
- No deformation or distortion of the part; treatment done on finished parts

Liquid nitriding is suitable for a wide variety of carbon steels, low alloy steels, tool steels, cast irons, and stainless steels.

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