



Alloy Processing

Alloy Processing is recognized throughout the aerospace and defense industry for our quality, ability to process the largest and most complex parts, and comprehensive metal finishing solutions.

Since our founding in 1988, Alloy Processing has remained focused on the principles of quality and workmanship set forth in our mission statement: Alloy Processing is committed to total quality and excellence in workmanship. Every employee is committed to improving the manner in which we accomplish our work assignments and meet our goals through “continuous improvement” of our processes and wise utilization of our valuable resources. We will ensure customer satisfaction with first time quality and superior “world class product”.

Quality at Alloy Processing is achieved through superior surface preparation, a CATIA-driven masking system, and an experienced workforce committed to excellence. We achieve a high quality etched surface for structural bonding and paint adhesion using a system of matched chemistries to rinse,

clean, and prepare the metal. Our masking system allows us to precisely place reusable masking templates for efficient processing of the most complex parts. Add attention to detail from an experienced workforce and the result is a reliable, quality service.

In response to our increasing customer demand for Alloy Processing’s services, we have constructed and certified a state-of-the-art facility. Alloy Processing maintains some of the largest aluminum and titanium tanks in North America with NDI, shot peen, and paint facilities for reduced cycle times and lower costs.

Please see the reverse side for additional information on the scope of our services and approvals.

- Three chemical processing lines for increased capacity and flexibility.
- Two full penetrant inspection lines handling part sizes up to 50 ft x 4 ft x 12 ft.
- High-speed shot peen with simultaneous double-sided compression and forming applications accommodating parts up to 50 ft x 20 ft.
- High performance coatings for improved wear, heat, oxidation, and corrosion resistance.
- HVOF/plasma/wire-arc/combustion powder and wire processes.
- CNC Grinding, Superfinish/Polish

	Cleaning	Anodizing			Painting	Coating			Inspection and Other Services			
Service	Passivation	Chromic Acid	Sulfuric/Boric Sulfuric Acid	Tartaric Sulfuric Acid	Paint	Thermal Spray	Chem Conv Coating (Type I)	Chem Conv Coating (Type II)	NDT	Repair Station	Shot Peen	Grinding/ Superfinishing
Alloy Processing	●	●	●	●	●	●	●	●	●	●	●	●
Length	40 ft / 12 m	40ft/12 m	50ft / 15 m	50ft / 15 m	40ft/12 m	6 ft / 1.8 m	40 ft / 12 m	40 ft / 12 m	50 ft / 15 m	Call	50 ft / 15 m	39 in / .99 m
Width	4 ft / 1.2 m	4 ft / 1.2 m	4 ft / 1.2 m	4 ft / 1.2 m	2.5 ft / .75m	5 ft / 1.5 m	4 ft / 1.2 m	4 ft / 1.2 m	6.6 ft / 2 m	Call	20 ft / 6 m	18 in / .46 m
Depth	6 ft / 1.8 m	6 ft / 1.8 m	12 ft / 3.6 m	12 ft / 3.6 m	6 ft / 1.8 m	5 ft / 1.5 m	6 ft / 1.8 m	6 ft / 1.8 m	20 ft / 6 m	Call		18 in / .46 m

ESSENTIAL SERVICES

Large Part Processing

- ▶ Cleaning of Aluminum Alloys
- ▶ Cleaning of Titanium Alloys
- ▶ Cleaning of CRES Steels
- ▶ Decontamination of Shot Peen Residue
- ▶ Pre-penetrant Etch of Aluminum Alloys
- ▶ Pre-penetrant Etch of Titanium Alloys
- ▶ Pre-penetrant Etch of CRES Steels
- ▶ Sulfuric Acid Anodize of Aluminum Alloys
- ▶ Tartaric Sulfuric Acid Anodize
- ▶ Post Anodize Seal
 - Dilute Chrome Seal
 - Sodium Dichromate Seal
 - Hot DI Water Seal

Prime and Paint

- ▶ Epoxy & Urethane Primers
- ▶ Epoxy & Urethane Top Coat
- ▶ Chemical Agent Resistant Coating (CARC)
- ▶ High Temperature Primers
- ▶ Fuel Tank Coatings
- ▶ Teflon Coating
- ▶ Ceramic Coating
- ▶ Dry Film Lubricants

Shot Peen

- ▶ High Speed Shot Peen
- ▶ Forming Capabilities

Thermal Spray

- ▶ HVOF Spray
- ▶ Plasma Spray
- ▶ Wire Arc
- ▶ Precision Grinding & Superfinish
 - Grinding
 - Superfinish
 - Polish
- ▶ Dry Abrasive Blasting

Nondestructive Testing

- ▶ Penetrant Inspection
- ▶ Hardness Testing
- ▶ Conductivity Testing

CUSTOMER AND QUALITY APPROVALS

- Airbus
- Aerojet/Rocketdyne
- Bell Helicopter
- Boeing
- Boeing Mesa
- Bombardier
- Collins/UTAS/UTC
 - Aerostructures
 - Aerospace Systems
 - Landing Gear
- Embraer
- GE Aerospace
- GKN Astech Engineering
- Gulfstream
- Hawker Beechcraft
- HR Textron
- Israel Aircraft Industries
- L3 Communications (Navy)
- Latecoere
- Lockheed Martin
- Marvin Engineering
- Middle River Aircraft Systems
- Moog Aircraft
- NASA
- Northrop Grumman
- Parker Aerospace
- Pratt Whitney
- SEMCO Instruments
- Spirit AeroSystems
- United Launch Alliance
- AS9100D
- ISO9001: 2015
- Nadcap
 - Thermal Spray Coatings
 - Chemical Processing, Dry Lube and Primer, NDT

For more information, go to pccaero.com/companies/alloy-processing/ or call 310.635.9995

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