



# ***SHEETMETAL FABRICATION***

Available at:

**AREMAC HEAT TREATING, LLC**

330 9<sup>th</sup> Ave. • City of Industry, CA 91746

[www.armac.com](http://www.armac.com)

**626-333-3898**

Since 1968, Aremac Heat Treating (AHT) has been a dependable, one-source manufacturing facility for parts and assemblies. At AHT, we have wide experience in metal forming and fabrication. We fabricate parts for aerospace, defense and private industries all over the world.

## **OUR SPECIALTIES**

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### • **Hydroforming**

We use rubber pad hydroforming to fabricate complex shapes. The hydroforming process simplifies tooling, which lowers the cost and gets your parts to you fast – when you need them.

### • **Titanium Hot Forming / Sizing**

This highly controlled and precise process is our specialty. AHT provides finished titanium parts and assemblies for commercial aircraft, spacecraft military high-performance and stealth aircraft.

### • **Hot Forming/Joggling**

Your aluminum and titanium parts can be hot formed or joggled per specification quickly and accurately using your tooling or ours.

### • **8 Axis Press Brake Forming**

Using the latest in brake press technology to ensure end product quality in forming of complex parts with parallel and non-parallel flanges.

### • **5 Axis High Speed CNC Machining/Waterjet**

Our 3 and 5 axis machining centers can handle parts and tooling up to X=64" Y=32" Z=30".

Our 5 axis waterjet cuts precision parts fast without distortion. We can accept your CAD files for rapid turnaround.

### • **Heat Treating**

This all important process is performed in-house to insure that quality and scheduling demands are met. Our Staff metallurgist, in-house lab, and over 30 years experience ensures that all of your parts are "treated right".

### • **Diffusion Bonding**

Diffusion bonding is a solid-state joining process capable of joining a wide range of dissimilar materials without the need for melting (welding) and with minimum distortion. AHT can diffusion bond parts up to 6' long in our specialized equipment.





# 5 AXIS WATERJET

## CUTTING SERVICES

Now Available at:

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## WATERJET HIGHLIGHTS

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- **TECHNOLOGY**

Our 5 axis Flow Mach 4 with Dynamic XD head is the forefront of waterjet technology. Advanced beveling with 60° of motion allows precise cutting of complex parts in 3D.

- **NO HEAT BUILD UP**

Produces no heat affected zone (HAZ), no distortion or mechanical stresses.

- **VERSATILITY**

With 94,000psi cutting power we can cut virtually any material to net or near net shapes.

- **FAST TURNAROUNDS**

The Mach 4 technology allows it to cut up to 50% faster than conventional jets. We can use your CAD files for faster set up and turnaround.

- **SMOOTH, PRECISE CUTS**

Cuts are accurate to within  $\pm 0.003$ " repeatability of  $\pm .002$  and angles  $\pm .5$  degrees .

- **REDUCED COSTS**

Precision cutting and "parts nesting" provides optimum use of materials, thereby reducing scrap and cost per part.

- **A CUTTING ENVELOPE OF X= 157" Y= 78" Z= 8" B= 360° C= 60°**

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## WATERJET APPLICATIONS

- **AEROSPACE**

Machining capabilities of all known materials including composite, aluminum, steel, titanium, castings, forgings, plastics, etc.

- **MACHINE SHOPS**

Waterjet cutting of pre-hardened materials will eliminate secondary machining.

- **METAL STAMPING**

Hard to stamp parts are no problem for the waterjet. Eliminate tooling costs on short runs.

- **DECORATIVE APPLICATIONS**

Whatever you can design, the waterjet can cut, intricate shapes and contours are no problem.

- **SIGNS**

Company logos and fonts can be reproduced with precise accuracy.

- **ARCHITECTURAL APPLICATIONS**

Cutting granite, marble, ornamental irons, polished brass, etc., is no problem for the waterjet.



# AREMAC

HEAT TREATING, LLC

330 9<sup>th</sup> Ave., • City of Industry, CA 91746 • (626) 333-3898 • Fax: (626) 369-2932

[www.armac.com](http://www.armac.com)

AreMAC has been serving the **aerospace** and **commercial** manufacturing industries on the West Coast since 1968. We have evolved into a diversified heat treating facility with over 26,000 sq. ft. of floor space, performing hundreds of processes on virtually every metal imaginable.

## Virtually any type of processing you may need is available . . .

◆ Nitriding	◆ Glass Bead & Sandblasting	◆ Austempering
◆ Hardening & Tempering		◆ Solution Heat Treating
◆ Annealing & Normalizing		◆ Sub-Zero Treatments
◆ Age Hardening		◆ Steam Tempering
◆ Marquenching		◆ Carburizing
◆ Carbonitriding		◆ Stress Relieving
◆ Titanium Hot Forming		◆ Forming
◆ Hot Sizing		◆ Lab Services
◆ Straightening		◆ Furnace Brazing
◆ Micro-Hardness Testing	◆ Engineering Evaluation	◆ Vacuum Heat Treating

## We process a wide range of commercial and aerospace materials . . .

- **Aluminum Alloys**
- **Titanium Alloys**
- **Nickel Base Alloys**
- **Beryllium Copper**
- **Mumetal, Brass, Bronze**
- **Oil Hardening Tool Steel**
- **Air Hardening Tool Steel**
- **Hot Work Tool Steel**
- **High Speed Tool Steel**
- **Water Hard. Tool Steel**
- **Plain Carbon Steels**
- **Alloy Steels**
- **Carburizing Grades**
- **Steel Castings**
- **Ductile Iron**



**Forming & Straightening of Steel,  
Aluminum & Titanium is a Specialty at AreMAC.**



We have a fully trained and experienced staff including a metallurgical engineer with over 30 years of commercial and aerospace heat treating experience.

At AreMAC, we believe that meeting a customer's needs involves both understanding metal processing and a determination to find solutions to problems. Over 40 years of heat treating experience has equipped us to provide this uniquely different service.

*If you should have any questions regarding our services, please feel free to give us a call:*

**For Steel Heat Treating:**

*Ed Kopaskie*

**For Aluminum, Heat Treating  
& Forming:**

*Denny Butler*

**For Estimating/Quoting:**

*Mike Serna*