O&W HEAT TREAT, INC.

SPECIALISTS IN AEROSPACE METALLURGICAL PROCESSES • ATMOSPHERE BRAZING & HEAT TREATING

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Capability

Processes:

Heat Treating
- Bright hardening & tempering
- Solution treating & precipitation hardening
- Age hardening
- Dry and wet hydrogen annealing
- Annealing
- Stress relieving
- Coating diffusion
- Cold stabilization to -120 °F
- Cryo treating to -320 °F

Joining
- Vacuum Brazing
- Atmosphere Brazing (Hydrogen, Argon)
- Induction Brazing (Conventional and Argon)
- Torch Brazing
- Soldering
- Capacitive Discharge Tack Welding

NIST Traceable Testing:
- Mechanical Testing
- Load Testing
- Shear Testing
- Torque Testing
- Rockwell Hardness Testing
- Superficial Rockwell Testing
- Knoop Microhardness Testing
- Vickers (DPH) Microhardness Testing
- Metallographic Testing
- Routine structure, alpha case, nitride case, eutectic melting, alloy depletion, IGO/IGA, grain size, braze joint alloying and undercutting
- Destructive braze joint evaluation
- Degreed Metallurgical Engineer on staff
- Miscellaneous Testing
- Nondestructive Helium Mass Spectrometer
- Leak Checking and Pressure Checking
- Residual Flux Testing

Materials:

300 Series Stainless Steels
400 Series Stainless Steels
PH Stainless and Maraging Steels
Aluminum Alloys
Ni Alloys
Titanium Alloys
Copper and Beryllium Copper Alloys
Air Hardening Tool Steels, Including A, D, M, S, & T series

Industries Served:

Aerospace
Medical
Nuclear
Automotive
Petroleum
Machine Tool
Food Products
Industrial Lasers
Plastics Processing
Computer Hardware
Custom & Collectable Firearms Processing
Decorative, Collectable and Military Knives