



## your solution is here

Aalberts surface technologies is part of Aalberts N.V. — the world's leading provider of heat treatment and brazing technologies, services and solutions representing more than 130 facilities in 30 countries, including 17 US locations.

Aalberts delivers this core mission: unmatched solutions and services through skilled experience, innovations, shared learnings, and best practices.

At Aalberts, we have the resources for not just the right solutions ... but the best ones.



# vacuum brazing

for the relentless pursuit of excellence  
in mission critical metal joining

[alberts-ht.us](http://alberts-ht.us)





## standard-setting service in the brazing industry

Vacuum brazing is a specialized manufacturing process used to bond two or more metal components together using a filler metal, known as a brazing alloy. It is performed in a vacuum or controlled atmosphere environment to prevent oxidation and contamination during the brazing process.

The process is used to create high-integrity joints that are executed against the tightest tolerances. Prime and tiered suppliers across many industries rely on our brazing expertise, unsurpassed service, and state-of-the-art technology.

### benefits

- **Joint Strength** enhanced joint strength that is equal to and often stronger than the base material used
- **Versatility** allows for joining dissimilar metals
- **Complexity** join complex shapes and assemblies
- **Clean** create bright, clean, corrosion resistant, and oxide free joints
- **Accurate** tight tolerances and dimensional accuracy are maintained
- **Heat Treat Integration** vacuum brazing can be combined with heat treatment processes
- **Flexibility** able to accommodate large or small batch runs
- **Repeatability** achieve efficient, consistent results
- **Environmentally friendly** process produces minimal emissions and pollutants

## materials processed

### stainless steel

- 300 & 400 series

### super alloys

- Inconel
- Waspaloy
- A286
- Hastelloy
- Rene 41

### copper

### refractory materials

- Moly
- Tungsten
- Titanium
- Carbon Steels

## markets served

### Varied industries, servicing OEMs and others in:

- Aerospace
- Automotive
- Commercial Applications
- Medical & Pharma
- Military & Defense
- Power Generation
- Semiconductor

## capabilities

Expertise, experience and proven processes for joined assemblies such as:

- End-cover, nozzle, and cartridge assemblies for fuel delivery systems
- Heat exchangers
- Honeycomb Brazing
- Tube assemblies
- Refined components w/high tolerance requirements
- Semiconductor equipment applications
- Copper Brazing
- Gold Brazing
- Nickel Brazing

## facilities and equipment

Greenville, SC	Temp. Range (F)	Quench	Units
36"W x 32"H x 48"L	600 - 2350	2-Bar Quench	1
36"W x 32"H x 48"L	850 - 2350	2-Bar Quench	2
36"W x 32"H x 48"L	900 - 2350	2-Bar Quench	4
36"W x 32"H x 48"L	1000 - 2350	6-Bar Quench	1
49"W x 40"H x 76"L	600 - 2200	2-Bar Quench	1

### Goffstown, NH

36"W x 28"H x 57"L	900 - 2325	2-Bar Quench	6
36"W x 28"H x 72"L	600 - 2325	2-Bar Quench	1
52"W x 48"H x 80"L	600 - 2325	2-Bar Quench	2

### Manchester, CT

42"W x 32"H x 52"L	900 - 2250	2-Bar Quench	4
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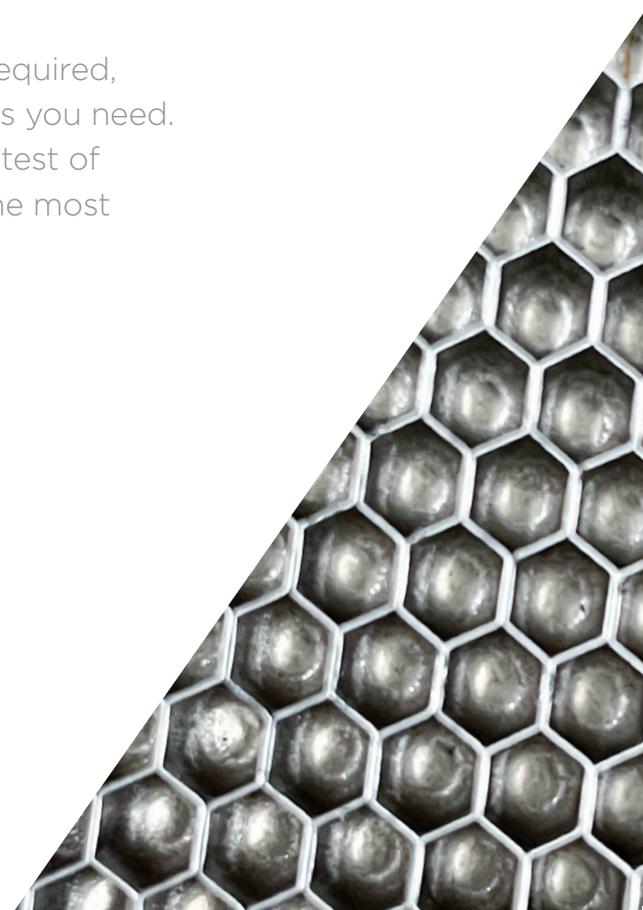
# unequaled service, expertise

Regardless of project scope, material need, or treatment required, Aalberts has the brazing expertise, insights and capabilities you need. Every day, we renew our commitment to handling the tightest of tolerances, achieving the highest quality, and navigating the most challenging of lead times.

Our vacuum brazing facility locations in the US are:

- Greenville, South Carolina
- Goffstown, New Hampshire
- Manchester, Connecticut

If your company requires the highest quality — often with aggressive lead times — contact us today for a free quote.



# Aalberts surface technologies

Capacity. Quality. Quick Turns with Unrivaled Accuracy.

Nadcap AS9100D ISO9001:2015 ITAR Prime Approvals

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