Alloy's Precision Welding Capabilities:

- Free-hand TIG Welding
- Thin to thick wall welding, from .004" to .750"
- Dissimilar metal joining
- Circumferential welding
- Orbital welding
- Ultra-thin metal joining
- Chamber welding (contamination-free, high purity welding)
- Tight dimensional tolerances
- Soldering
- Brazing
- Semi-automated welding

Available Materials:

- Carbon Steel
- Stainless Steel
- Aluminum
- Inconel
- Monel
- Titanium
- Hastelloy
- Phosphor Bronze
- Brass
- Beryllium Copper
- Other "white" and "yellow" metals

Since 1935, Alloy Bellows & Precision Welding has been supplying the world with metal bellows, bellows assemblies, thin-wall seam-welded tubing, welding, soldering, brazing and nondestructive testing services. Our dedication to providing first-rate products and services on-time and on-budget has allowed us to become a leading supplier to companies, both large and small. Our unique capabilities, flexible manufacturing environment and, most importantly, our staff have allowed us to meet our customers' most critical demands for more than 75 years.

Alloy Bellows & Precision Welding
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Joining high precision and high tech.

A wide range of industries, both large and small, trust Alloy Bellows & Precision Welding for high-precision welding, brazing and soldering. Whatever your metal joining needs – from dissimilar metals or wall thicknesses to ultra thin, exotic metals – our inhouse engineers and welders have the expertise to create the right solution. We’ve solved both the most basic and most complex challenges for industries like aerospace, nuclear, biomedical, processing, petrochemical, power generation and semiconductor. And we’re always building on our reputation for world-class product development by investing in the tools we need to create leading-edge solutions, including state-of-the-art, proprietary software for precise rapid modeling, analysis and prototyping.

As a vertically integrated operation, we can solve even your toughest challenges more efficiently than many other manufacturers, all at a very competitive price. We have an extensive knowledge base for R&D work which leads to rapid development and turnaround of complex projects. Our production process is further expedited by the fact that we offer inhouse X-ray and FPI capabilities.

We know that staying responsive and on schedule is critical to everyone’s success, and we take great pride in our consistently flexible, responsive and reliable on-time delivery. From the longest production run to the smallest rush job, you can rest assured that we can meet the challenge.

When you place an order, we schedule it based on your requested delivery date. Then we do whatever it takes to keep everything on time. We build in scheduling buffers before each manufacturing process, to synchronize the workload and add the flexibility to handle any changes or delays that come up. The end result? The dependable, on-time delivery you need to stay ahead.

We Create The Quality. Our Testing Ensures It.

Maintaining world-class quality and precision in our products and services is a serious commitment at Alloy Bellows. Because, simply put, our quality is essential for your peace of mind. We’re currently ISO9001:2000 and ASME Section IX certified with all of our welders certified individually.

When you take precision and customization as seriously as we do, there can never be too many quality checks. We perform rigorous inhouse testing and inspection, all to ensure a level of quality you won’t find anywhere else.

Our quality testing services include:

- FPI (Fluorescent Penetrant Inspection)
- Helium Leak and Pressure Testing
- Radiographic (X-ray) testing
- Nondestructive Testing
- Dimensional visual inspection
- Microscopic visual inspection

With our thorough testing and high precision welding capabilities, we can create tolerances as tight as +/- .003” in length, within ½ degree of angularity, and with welded seams as thin as .020”.

When additional tests beyond our internal efforts are needed, our long-standing relationships with several outside, independent laboratories ensure that it will be done right.

One Source For So Many Solutions.

For anything and everything related to precision metal joining, Alloy Bellows & Precision Welding is your one-stop shop. Our “big picture” approach gives us remarkable flexibility through every step. With our inhouse machine shop, we can develop our own tooling and fixtureing, leading to improved delivery times. We can also create both bellows and full assemblies in a number of different configurations, all of which gives you the convenience and efficiency of working with one single, reliable source.

Fully Committed To Everything We Do. And Who We Do It For.

Whether joining exotic metals or creating complete bellows assemblies, we never forget the customer at the other end of our products and services. We believe our commitment to you doesn’t end when your product is shipped; instead, we work towards building a strong relationship that will last a lifetime. We strive to anticipate your needs proactively, to eliminate problems before they even arise, so you’ll be free to concentrate on other things.

JOINING high precision AND high tech.

High precision welding, brazing and soldering.

High precision welding, brazing and soldering.