

WE'RE **all**  
**about**  
**PRECISION.**



**Alloy Bellows**  
& Precision Welding

Thin-Wall Seam-Welded Tubing

# precision IT'S what we do.

## Delivering the right solution. And delivering it on time.

At Alloy Bellows, we're very proud of our ability to provide flexible, responsive and reliable on-time delivery. From the largest production runs to small quantity rush jobs, we will meet the challenge because we know that staying responsive and on schedule is crucial for everyone's success.

When you place an order, we schedule it based on the delivery date you request. Then we do everything we possibly can to keep the entire process on time. We build scheduling buffers in front of each manufacturing process – to synchronize the workload and add the flexibility to handle any unexpected changes or delays, giving you the kind of reliable, on-time delivery you can count on every time.



Industries of every size and variety rely on Alloy Bellows & Precision Welding to design and manufacture high-precision metal tubing. Whatever your tubing needs, our in-house engineering team has the expertise to create the right solution. For years we've handled everything from the most basic to the most complex applications for industries like aerospace, nuclear, biomedical, processing, petrochemical, power gen and semiconductor. And we're not about to stop

building on our reputation for world-class product development; that's why we've continued to invest in the tools we need to create high-tech solutions, including state-of-the-art, proprietary software for precise rapid modeling, analysis and prototyping.

Vertical integration means we can deliver high-quality, customized solutions more efficiently than other operations and still keep prices down. Thanks to a comprehensive range of in-house capabilities, our precision tubing delivers incredibly uniform wall thickness, consistent material strength, all at a more competitive price. We even offer custom sizes in a variety of exotic metals, in both long and short production runs. Plus, as a value-added service, we have an in-house Electro Chemical Machine (ECM) which allows us to offer burr-free cutting of tube to your specified lengths.

## The Recipe for Quality: Test, Re-test, then Test Again.

We believe our quality is essential for your peace of mind. We owe it to each and every customer to deliver world-class quality and precision in all our products and services. We're fully ISO9001:2000 and ASME Section IX certified, with all of our welders certified individually.

But there can never be too many quality checks for a company that takes precision and customization as seriously as Alloy Bellows. We perform an extensive amount of rigorous in-house testing and inspection to maintain the level of quality we've built our reputation on.

Our precision tube testing services include:

- ▶ Helium leak and pressure testing
- ▶ Helium mass spectrometry (to  $1 \times 10^{-9}$  cc/second)
- ▶ Microscopic visual inspection

We've maintained long-standing relationships with several independent laboratories through the years. So if additional testing is needed, we know who to turn to in order to get it done right.

## One Stop, So Many Metal Tubing Solutions.

Alloy Bellows & Precision Welding is truly your one-stop shop for anything and everything related to seam-welded, thin-wall metal tubing. We take a comprehensive approach to manufacturing that gives our entire production process incredible flexibility. Our in-house machine shop, for example, allows us to create our own tooling for the manufacture of tubing. Plus, our welding and forming expertise means we can easily create tubing in various diameters. Taken together, our flexibility and unique capabilities give you the ease of working with one single, reliable source.

## Extremely Committed To What We Do. And Who We Do It For.

Precision, quality and efficiency are all very important to everyone at Alloy Bellows. Equally important is the customer at the other end of our products. We don't believe our commitment to your satisfaction should end once your order is shipped. We would rather work toward building a relationship that will last a lifetime. We strive to anticipate your needs, so potential problems can be caught before they even happen, leaving you free to concentrate on other things, confident that your job is being done right on our end.

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 70 years.



## Alloy's Precision Thin-Wall Tubing Capabilities:

### Custom Sizes:

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#### Continuous Automated Production (Tube Mill)

- ▶ .5" - 3" OD
- ▶ Wall thicknesses from .005" to .015"
- ▶ Tube lengths +/-12"

#### Semi-Automated Production (Seam Welded)

- ▶ 1" - 8" OD
- ▶ Wall thicknesses from .004" to .022"
- ▶ Tube lengths up to 24"

### Finishing Options:

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- ▶ Rough
- ▶ De-burred and trimmed
- ▶ ECM (Electro Chemical Machine)
- ▶ Burr-free cutting
- ▶ Cut to customer length

### Available Materials:

- ▶ Stainless Steel
- ▶ Inconel
- ▶ Monel
- ▶ Titanium
- ▶ Hastelloy
- ▶ Other exotic metals



[Bellows](#) ▶ [Assemblies](#) ▶ [Tubing](#) ▶ [Welding/Soldering/Brazing](#) ▶ [Nondestructive Testing](#)

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