CRAFTSMANSHIP

A team of dedicated craftsmen, with a single minded devotion to achieving the outcomes customers need most.

• Total product quality
• On-time delivery
• World class design support
• Industry leading customer service
• The lowest possible cost of ownership

UNITED ALLOY, INC.

Custom Metal Fabrication and Powder Coating.


Design Engineering • Welding and Fabrication • Powder Coating • Turnkey Solutions

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Design and Engineering
The certified engineers with advanced degrees who staff the United Alloy Technology Center are experts at more than merely metal. They serve as a valuable extension of every customer’s design team, lending their mastery of CAD design and 3D modeling to product engineering, project management and precision fabrication. Their insight often yields innovative solutions that improve product performance, enhance quality and reduce costs. Our engineering team has hands-on expertise in automated production and quality management, assuring UAI customers that their initial design will be faithfully, repeatedly reproduced to the finest detail.

Automated Welding
World class capability in robotic welding is a product of our status as a leader in the manufacture of complex products. Every UAI customer reaps the benefit of an engineering team with experience on 10,000+ CAD-CAM projects, along with robotic production cells that reliably reproduce the most complex angles and intricate weldments with astounding accuracy, repeatability, operational efficiency and a reduction in component costs. We take special pride in designing ideal production processes to meet and exceed customer expectations. It’s no wonder that global Fortune 100 OEMs commonly come to UAI to tackle their toughest challenges.

At UAI, quality and craftsmanship are not ideals. They are outcomes. All our capabilities are measured by one ultimate benchmark: their contribution to customer success.

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Custom Welding
Pride in craftsmanship is the key driver behind UAI’s exceptional capability in custom welding. Experience is another hallmark, thanks to a staff of dedicated welders that can commonly boast of 10+ years of experience on the industry’s toughest projects. This proud tradition is backed by an impressive list of credentials that prove our commitment to completely consistent quality from the first weld to the last.

- AWS D1.1 certification
- Pulse-Arc welding
- MIG welding
- TIG welding
- Resistance and stud welding
- BLUCCO finishing for repeatable delivery of the tightest tolerances

Fabrication
From single prototypes to high-volume serial production runs, UAI fabricates metal in an ISO 9001:2008 facility equipped with the latest technology. Automated equipment from Trumpf, Cincinnati, Amada, Fanuc, Genesis and Fipac, among others, aids us in laser cutting, forming, shearing, automated drilling, punching and blanking the largest parts, with sizes up to 16 feet long, 6 feet wide and 1 inch thick. Every component, whether short-run or high volume, is produced in conformance to strict ISO, Mil-Spec and RoHS specifications. Nothing else would satisfy our customers’ ultimate requirement: world class fabrication in an optimally lean manufacturing environment.

Surface Coating
Protective finishing is a key competitive edge for UAI, thanks to the presence of two of the most advanced electrostatic powder coat paint lines the coating industry has to offer. Either line can handle components to 34 feet in length, 10 feet in height and 6 tons in weight. Our 6 stage wash offers the options of reverse osmosis rinse, plus programmable drying and curing. A complete battery of tests for thickness, adhesion, and appearance offer our customers reliable, documented assurance of a product ready to withstand the harshest conditions.

Strategic Logistics
Picture a 200,000+ sq. ft. production facility with multiple drive-in, self-leveling loading docks and overhead crane capacities up to 20 tons, strategically positioned in the convenient heart of the US Midwest. Add automated equipment from Trumpf, Cincinnati, Amada, Fanuc, Genesis and Fipac, among others, aids us in laser cutting, forming, shearing, automated drilling, punching and blanking the largest parts, with sizes up to 16 feet long, 6 feet wide and 1 inch thick. Every component, whether short-run or high volume, is produced in conformance to strict ISO, Mil-Spec and RoHS specifications. Nothing else would satisfy our customers’ ultimate requirement: world class fabrication in an optimally lean manufacturing environment.

Today’s achievement is tomorrow’s standard
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