

Fabrication - Capabilities



AISC
CERTIFIED
FABRICATOR

AISC Certified Steel Fabrication Shop

The team at Revolution Industrial is proud of our state-of-the-art steel fabrication shop, which spans 13 acres and 159,000 square feet. Within our expansive facilities, we utilize cutting-edge technology, industry-leading processes and equipment, and decades of expertise to deliver top-quality steel fabrication that meets project needs of varying scales and complexities.

Steel Fabrication Services

We offer a comprehensive range of AISC-certified steel fabrication services to cater to a wide range of project requirements. Whether you need structural steel, hand rails, piping systems, or commercial construction materials, we have the capabilities to fulfill your specifications with precision and accuracy. From initial design concepts to final fabrication and delivery, we are committed to providing end-to-end solutions that meet your timelines and budget constraints.



Our Fabrication Team

Our success relies on a skilled team committed to maintaining and enhancing product quality. Our engineers, welders, fabricators, and technicians are highly trained in steel fabrication, consistently delivering superior products above industry standards. As an AISC-certified shop, we prioritize error prevention and consistent results through routine audits and inspections. Each employee understands their role in ensuring high-quality, cost-effective steel products for our clients, minimizing re-work.

CNC Fabrication

Our top-of-the-line CNC machinery ensures precision and efficiency in every project we undertake. By sequencing large projects, we're able to streamline projects to get ahead of schedule without sacrificing quality.

- Flange drilling
- Web drilling
- Punching (up to 4" holes)
- Drilling (up to 3 1/2" thick)
- Scribing
- Countersinking
- Plasma and oxygen cutting



Handrail Fabrication

Our Bend Tech Dragon A400 allows us to efficiently fabricate high-quality steel, aluminum, stainless steel, chrome alloy, and galvanized steel handrails with accurate scribe lines and clean, tight fits for projects across industry sectors.

- Round material size: 0.75-6" OD
- Square/Rectangle material size: 0.75-4" side length
- Maximum capacity: 400 lbs
- Material Thickness 1/32"-5/8"

Piping Systems

Our shop has capabilities to meet project specifications across industries, including oil & gas, water & wastewater, and more. Our team successfully completes projects of all sizes and complexities, on time and within budget.

- Water
- Steam
- Hot Oil
- Vapor Recovery
- Heat Tracing
- Insulation
- Code Systems



Structural Steel

We provide AISC-certified structural steel fabrication services to a range of industrial and commercial markets, facilitating faster construction, easier installation, and reduced project costs. Our team has delivered quality structural steel on many diverse project types over the years.

- Commercial & Industrial
- Sports Arena / Scoreboard Structures
- Mining
- Miscellaneous Structural Steel Packages



Tanks & Vessels

We work with our clients to provide the best solutions for their vessel fabrication needs. From design to fabrication, coating, testing, and delivery, we're focused on quality and compliance as well as safety and cost-effectiveness on every project.

- Tank Fabrication
- Hoppers
- R Stamp Repairs
- Silos

Miscellaneous Fabrication

With a state-of-the-art facility and skilled, experienced teams, we can fabricate nearly anything your project requires. Give us a call to find out how we can accommodate your next project.

- Platforms
- Ladders
- Stairs
- Pipe Racks
- Gates
- Embeds
- Collars
- Supports



Quality Assurance



We prioritize quality in all aspects of our work. We use high-quality materials from trusted sources and conduct rigorous tests to ensure our products meet the highest standards. Our commitment to quality control is driven by a customer-centric approach, aiming for satisfaction, reliability, and longevity. Through continuous improvement and feedback, we surpass industry benchmarks. Our dedication to quality has earned us industry certifications and awards, and we remain focused on delivering unmatched quality, reliability, and safety for our customers' satisfaction.

Our Fabrication Capabilities

EMI ACPC Shape Line

- Processing line Angle, C-Channel, Flat stock and square/rectangular bar
- C Channel: 3" to 12"
- Flat Bar: 3" up to 12"
- Angles 2"x2" up to 8"x8"x3/4"
- Square Bar/Rectangular: 2"x2" up to 6" x 12" x 1/2"
- Max thickness 3/4"
- Hypertherm 105
- Infeed out feed conveyors

Victory Plasma Machine

- True Hole Tech
- Plate size 8'x20'
- Plasma Hypertherm XPR300
- Mild steel pierce 1-3/4"(Air shield gas)
- Mild steel max 3-1/8" (Argon-assist shield gas)
- Stainless steel pierce 1-1/2"
- Stainless steel max 3"
- Aluminum pierce 1-1/2"
- Aluminum max 2"

Bend Tech Dragon A400 Maximum Material Length 24'

- Round material size:0.75-6" OD

- Square/Rectangle material size: 0.75-4" side length
- Maximum capacity: 400lbs
- Material Thickness 1/32"-5/8"
- Processing material types: Steel, aluminum, stainless steel, chrome alloy, galvanized steel
- This machine helps us speed up the handrail process with accurate scribe lines, clean tight fits, which allows faster assembly (STEP files required)

Shop Equipment

- Multiple saws that can process up to 30" tall beams
- Prime line press brake, that can perform multiple bends for various projects, plate max size 10'-0"
- Atlantic sheer -max 10'sheer 2" capacity.
- Plasma table-max plate 5'x12'x7/8"
- Welder capabilities-Aluminum, flux core, stainless, hardwire .35"-1/16"
- Tube bender- 1", 1-1/4", 1-1/2",

- standard pipe, 1-1/2" OD tubing 3" radius stanrd
- Girder table this allows us to fabricate up to 180' of built up box girders/ plate girders.
- Overhead crane system 10 ton - Allows us to safely handle and move larger projects with efficiency

BAYLYNX Cambering Machine

- Model- BC-900 (333Tons)
- Capacity up to W36x150 A36 max
- Press capacity 333 Tons @ 4000 PSI
- 7L Bending Roll (Webb Roll)
- Plate capacity- 10'x10'x 1/2" Thick
- This machine expedites rolled ladder cages, vent pipes, ducts

7L Bending Roll

- (Webb Roll)
- Plate capacity- 10'x10'x 1/2" Thick
- This machine expedites rolled ladder cages, vent pipes, ducts



Revolution Industrial isn't just a contracting firm; we're your one-stop shop for industrial projects throughout Arizona. Our team includes AISC-endorsed fabricators and NACE-certified coating specialists, allowing us to deliver comprehensive solutions – from managing the entire construction process to providing high-performance industrial coatings.

Project Types

Industrial | Manufacturing | Agriculture | Water/Wastewater Power Generation | Food and Beverage Processing
Sports & Entertainment | Structures | Mining, Oil & Gas | Semiconductor & Battery Manufacturing | Data Centers

Revolution Industrial Divisions



Fabrication



Coatings



Electrical



Field /
Maintenance



Structural
Erection



Underground
Utilities



Scaffolding