

AWI MANUFACTURING

CUSTOM FABRICATION



A History of Excellence

Since 1970

AWI MANUFACTURING

When you work with AWI Manufacturing, you benefit from years of experience in stainless and mild steel manufacturing. As a Minnesota based company we serve customers across the Midwest. What makes AWI Manufacturing unique is how we transform customer feedback into cutting edge services, and highly efficient processes that save even more time and money. AWI Manufacturing reinvests in the newest technologies, equipment, and skilled workforce so you get the best that money can buy.



Take A Full Shop Tour

Take a unique drone tour of our facility today by visiting our YouTube Channel or our website.

Visit awimfg.com/custom-fabrication

We are an ISO Certified metal fabricator with a 100,000 square foot manufacturing facility.

AWI is outfitted to meet your custom fabrication needs.



Visit awimfg.com to learn more about AWI Manufacturing.

CUSTOM FABRICATION

AWI Manufacturing offers metal fabrication and job shop services for a wide range of industries. Working with mild steel, aluminum, stainless steel, titanium and brass. Laser Cutting and Tube Laser Cutting are AWI's most popular custom fabrication services. In addition, we offer numerous other value-added services to support complete custom fabrication projects.

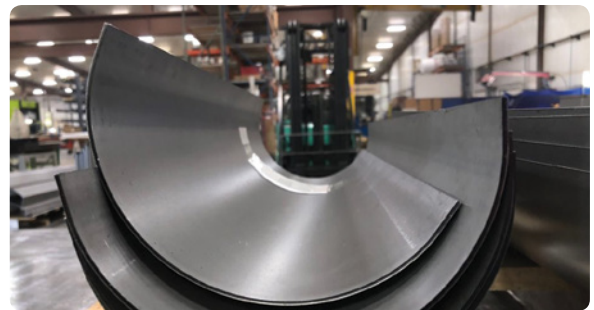
Welding

We offer a team of highly trained welders as well as robotic welding services. We are experts in the field of stainless steel as well as mild steel and aluminum. Ask for an audit of your part to look for ways to reduce welding or improve it.



Forming & Rolling

AWI has you covered for your forming and rolling needs. With forming capacity up to 485 tons and precision cnc rolling, we can tackle projects from large to small. Large capacity across multiple brakes allows for quick turnarounds.



Engineering

Our in-house engineers are adept at evaluating customers' ideas and sketches, transforming them in the design process, and calculating for tolerances and manufacturability.

Assembly & Finishing

We manage the multiple manufacturing processes necessary to get your project done right the first time with exceptional quality. AWI will coordinate assembly and finishing services for your project, so you can experience all the advantages of a "One-Stop-Shop."



Visit awimfg.com for more information about our custom fabrication services.

Laser Cutting

You can count on AWI to act as a dependable extension of your factory. Starting with quick and accurate quotes – We won't leave you waiting for answers.

Quality and Dependable Service

Our laser cutting service has grown into a world class facility in Winsted, MN. With large laser capacity across multiple lasers, 100,000 square feet of manufacturing space and an ISO Certified commitment to quality we have you covered. Instead of you shipping parts from shop to shop for multiple processes, we've brought them under one roof to meet your multiple process needs. Let us make your laser cutting experience simple.

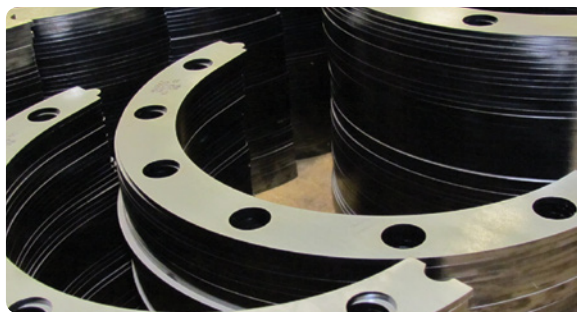
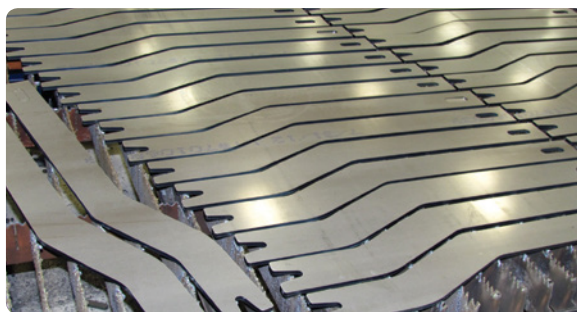
Laser Cutting Capabilities

Our three large laser cutting machines are driven by sophisticated nesting software to optimize material utilization and reduce waste. Each laser cutter can handle materials up to 84 inches wide by 162 inches long.

› (3) 8000 Watt Fiber Trumpf Lasers 7'X 13'

- › 1-1/4" Mild Steel
- › 1 1/2" Stainless Steel
- › 1 1/2" Aluminum
- › 3/8" Titanium and Brass

You can count on AWI to act as an extension of your factory. Starting with quick and accurate quotes – we won't leave you waiting for answers. Consistent communication continues throughout the manufacturing process, so you always know the status of your order.



Visit awimfg.com or call 1-888-272-2600 to request a laser cutting quote.

Tube Laser Cutting

Depend on AWI for precise tube laser cutting. When you're looking for a fabricator to cut many shapes and lengths of tubes, in addition to standard laser cutting, AWI can help.

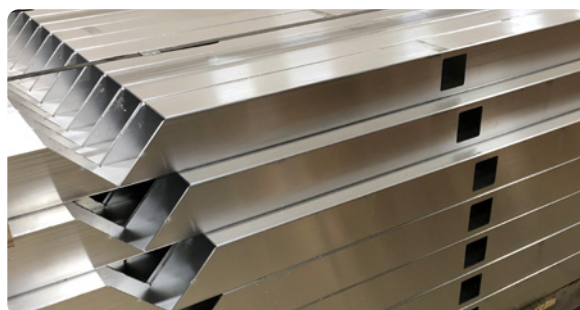
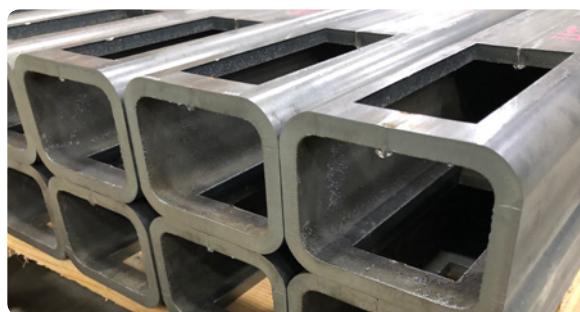
Reduce Time and Cost with AWI Tube Laser Cutting Services

Based in Minnesota our tube laser cutting service is another offering to our Midwest based customers looking for tube laser cutting.

AWI's state-of-the-art equipment and industry familiarity is unsurpassable. It enables our team to deliver precision, quality, speed and competitive pricing not found anywhere else. Our tube laser cutter compliments our flat lasers for a thorough laser cutting service that meets many demands.

Tube Laser Cutting Capabilities

- › Circular tubes from 0.5" to 8.625" in diameter
- › Rectangular tubes from 0.5" to 8.0" wide
- › Square tubes from 0.5" to 8.0" wide
- › Clean Tube Spoon to prevent laser splatter on inside of the tube (down to 1.38" diameter)
- › Angle iron, channel, and flat bar
- › 3D Tilt head for cutting complex parts and beveling/ angle cuts right on the machine
- › Up to 28-foot lengths
- › Weld Seam Detection



Visit awimfg.com for more information about our tube laser cutting services.

FACILITY INFORMATION

100,000 Sq. Ft. Manufacturing Floor Space

Laser Cutting

- › (3) 8000 Watt Fiber Trumpf Lasers 7'X 13'
 - › 1-1/4" Mild Steel
 - › 1 1/2" Stainless Steel
 - › 1 1/2" Aluminum
 - › 3/8" Titanium and Brass

Welding

- › 12' Seam Welder
- › Spot Welders
- › Mig Welding Machines
- › Tig Welding Machines
- › Robotic Welding

Shearing

- › 1/2" X 12' Shear
- › 1/4" X 10' Shear
- › 3/8" X 12' Circle Shear

Machining

- › 66 Ton Ironworker
- › Bridgeport Mills
- › 15" X 48" Gap Lathe
- › 6" X 18" Surface Grinder

Punching/Stamping

- › 88 Ton Punch Press OBI
- › 75 Ton Punch Press OBI
- › 35 Ton Punch Press OBI

Tube Laser Cutting

- › (BLM) Adige LT 8
 - › Up to 28' lengths
 - › Round, square, rectangular, angle iron, channel and flat bar
 - › Round tube from .5" to 8.625"
 - › Square tube from .5" to 8"
 - › Rectangular from .5" to 8"

Forming

- › 485 Ton Press Brake-14'
- › 190 Ton Press Brake-12'
- › 135 Ton Press Brake-12'
- › 60 Ton Press Brake
- › 35 Ton Electric Brake 4'

Rolling

- › 10' X 4 Roller (up to 1/2")
- › 5' X 4 Roller (up to 1/2")
- › 3' X 3 Roller (up to 10 ga)

Other

- › 3/8" X 12' Head Flanger
- › Automatic Feed Bandsaw
- › Surface Grinder
- › Bead Blast Booth
- › Virtek Quality Scanner
- › Faro Arm



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