



Central Nebraska's Only Cutting Service with TUBE, WATERJET & LASER CUTTING In-House!

LASER TUBE CUTTING: Our new precision fiber tube cutter handles round, square or rectangular tubes up to 8.5 inch wide and as small as 0.8 inches in diameter, 20-feet-long. It cuts carbon steel, stainless steel, aluminum and red metal up to 3/4 inches thick. From simple mounting holes to elaborate patent details, MACH 1 Manufacturing has your tube cutting needs covered- without a major backlog!



WATERJET CUTTING: We have the largest cutting area within 100 miles (if not the entire state). Our cutting bed is 24 feet long by 6 feet wide and has an accuracy better than +/- 0.005". It is perfect for heat/warp sensitive material, soft flexible rubber/ foam/plastic as well as very thick hard metal. It cuts complex detailed designs out of almost any material.



Metals	Composites	Plastics, Rubber Foams	Naturals
All Grades of Steel : • Stainless • Tool Steel All grades of Aluminum Exotic Metals: • Brass • Copper • Inconel • Titanium	Laminates: • Honeycomb • Phenolic Composites: • Carbon fiber • Fiberglass • G10 • Kevlar	Plastics: • Acrylic, Lexan • Polycarbonates • UHMW, HDPE • Teflon Foam - Open/closed cell Rubber • Natural • EPDM • Nitrile	Ceramics Porcelain Glass Stone: • Marble • Granite... Wood Leather



FIBER LASER CUTTING: High definition cutting at its best! Our super slim laser kerf enables precision micro cutting applications that are simply not possible by any other means. We can cut tiny details in hard metal in record time, therefore, saving you money! We cut metal from .005" to 15/16" Carbon steel, 3/8" Stainless & Aluminum, and 1/4" Brass, with a tolerance of +/- 0.006" over the entire 5 foot x 10 foot bed.



MACH 1 Manufacturing
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 Kearney, NE





COMPARISON OF CUTTING METHODS:

	Waterjet	HD Fiber Laser	EDM	Plasma
<u>Cut Finish/ Secondary Processing</u>	Satin Smooth Usually no cleanup	Smooth Some edge oxidizing	Satin Smooth Usually no cleanup	Bumpy to smooth Typically some slag
<u>Edge Quality</u>	Sharp edge	Some rounding of edge	Sharp edge	Some rounding of edge
<u>Heat Affected Zone</u>	None, cold cutting	some HAZ	Very shallow HAZ imparted	Typically some HAZ
<u>Warping</u>	No warping	Little warping	Usually no warping	Some Warping
<u>Material Selection</u>	Virtually any material	A variety of materials, but primarily steel & aluminum	Only conductive materials	Primarily Steel, Stainless Steel & Aluminum
<u>Thickness</u>	8" thick	Generally 1" or less	Up to 12"	Generally 1"-2", up to 3" if top of the line equipment.
<u>Intricate Cutting</u>	Very intricate designs possible	Very intricate designs possible	Very intricate designs possible	Hot spots/melting don't allow intricate designs

We invite you to reach out to us to see how we can improve your fabrication needs, reduce your secondary processing, reduce your shipping cost or delivery time. We look forward to forming a long term, mutually beneficial partnership with you!

CONTACT US 24/7:

MACH 1 Manufacturing
Kearney, Nebraska

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 Tammy@m1mfg.com

 **308.627.6533**



We cut square, round & rectangular tubes from 0.8" to 8.5" wide.

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