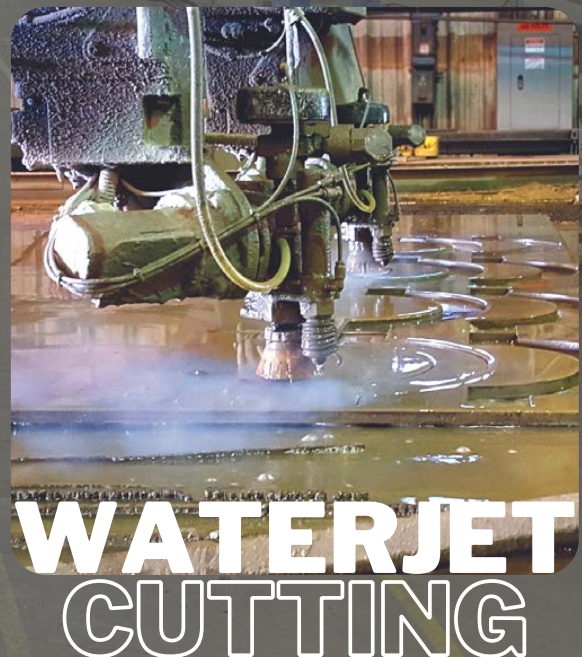
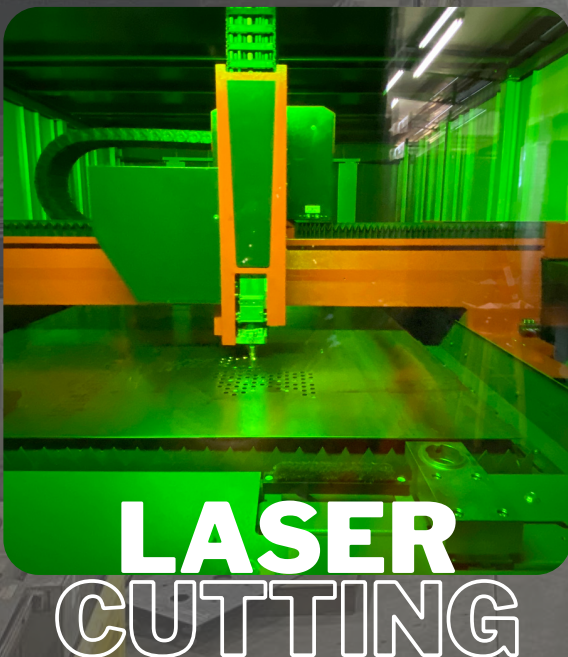
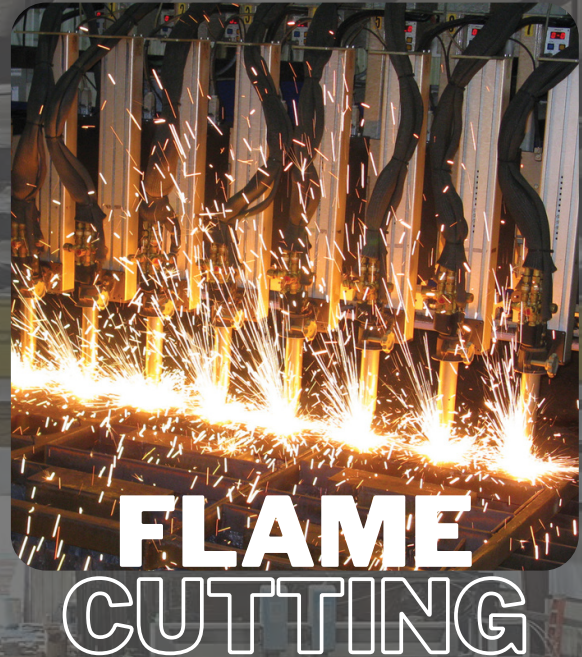


# SOURCE METALS



YOUR ONE STOP SHOP SINCE 1985



# FLAME CUTTING

## EQUIPMENT

### (2) CNC Pattern Torch Burning System

- 8 oxy acetylene torch heads
- 10' x 44' cutting area
- Burny®3 CNC control



## CAPABILITIES

- Steel plate can burn up to 8 inches thick
- Simple and complex shapes can be cut from carbon and alloy plates
- Our operators are fully equipped with the tools and training for close tolerance burnout
- Standard tolerance of  $\pm 1/16"$  to  $\pm 1/2"$



## BENEFITS

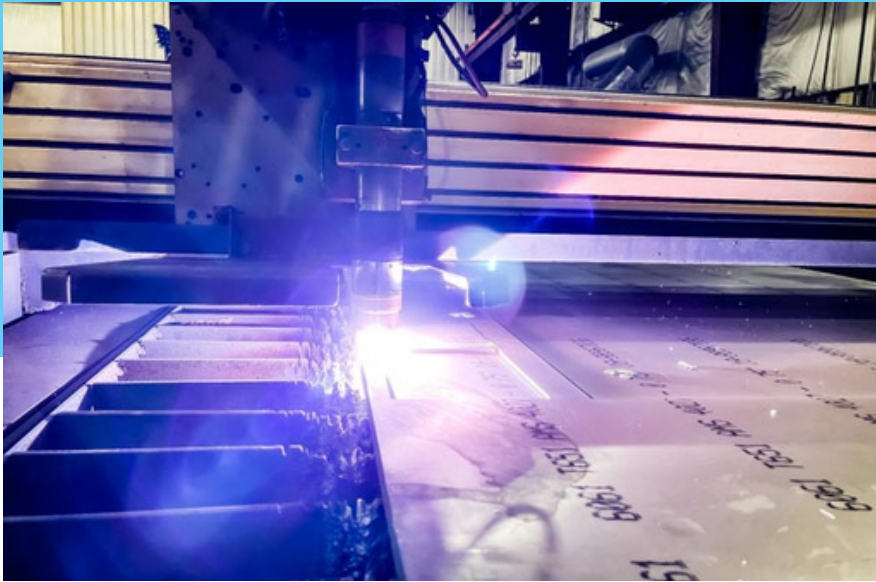
- Inexpensive method of steel cutting
- Superior dimensional tolerances
- Faster production times than sawing or total machining

Source Metals provides quality flame cutting as a metal cutting service with quick turnaround times. Our flame cutting department uses Messer CNC controlled machines that provide accuracy as well as speed. Partnered with operators fully equipped with tools and training needed to achieve close tolerance and quality burnouts.



# HIGH DEFINITION PLASMA CUTTING

Source Metals High Definition Plasma cutters can cut parts from carbon, alloy, stainless steel, and aluminum at a very attractive cost versus other plate processing methods. Plasma cutting has no competition when it comes to cutting medium to thick sheets of high alloy steel and aluminum.



## EQUIPMENT

### (3) CNC High Definition Plasma Cutting System

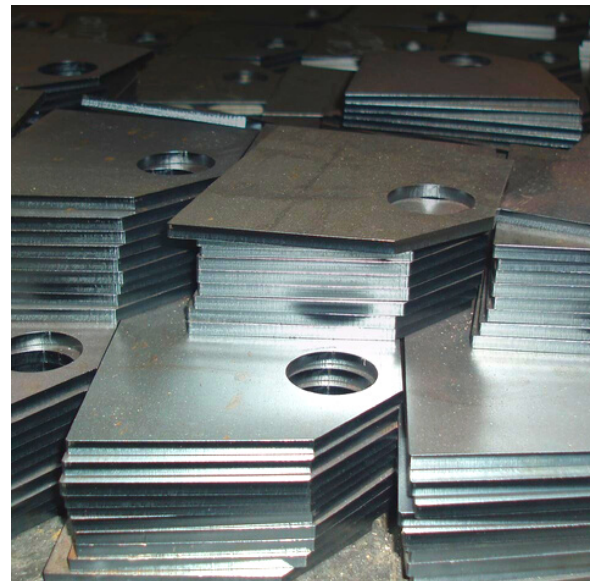
- 200 amp Hypertherm® system
- 152" x 276" cutting area
- Burny®5 CNC control
- True Hole Tech

### (1) CNC High Definition Plasma Cutting System

- 200 amp Hypertherm® system
- 84" x 170" cutting area
- Burny®5 CNC control
- True Hole Tech

## CAPABILITIES

- High definition plasma cutting from 20" gauge to 2" thick plate
- Parts produced from carbon, alloy, stainless steel and aluminum
- Standard Tolerance from  $\pm .020$

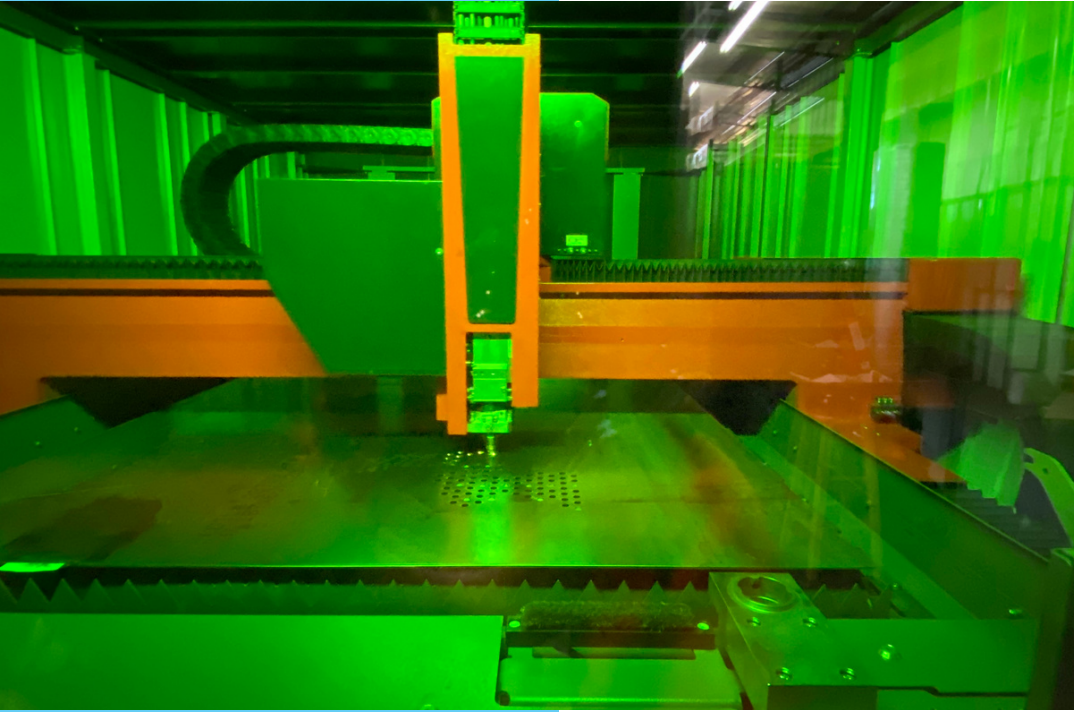


## BENEFITS

- Close tolerance, accurate cutting, high speed cutting
- Near typical tolerances at a fraction of the cost of laser cut parts on OD/blank parts

# LASER CUTTING

Laser cutting is able to cut faster and with higher quality than other cutting methods. It is very efficient in many fields where speed is important and the machines can cut a wide range of materials. The results are always precise and neat without deterioration of the material.



## EQUIPMENT

### **(1) BySmart Fiber Laser with Automation**

- 10,000 watt fiber laser
- 60" x 120" cutting area
- auto load and unloading system
- ability to cut 10,000 lbs. of material unmanned

### **(1) BySmart Fiber 4020; Fiber 4,000w laser**

- 4,000 watt fiber laser
- 83" x 162" cutting area



## CAPABILITIES

- Cuts up to 3/4" thickness in carbon and alloy
- Cuts up to 3/4" half inch thickness in stainless steel and three eighths aluminum
- Cuts up to 3/4" thickness in armor plate
- Standard cutting tolerance of  $\pm .005$
- Auto load and unload system

## BENEFITS

- Low distortion and dimensional accuracy
- Little to no burning, resulting in a fairly clean kerf or cut edge often eliminating secondary processing
- Computer aided component nesting of components produces more jobs out of each material sheet
- Rapid and inexpensive prototyping due to no hard tooling



Waterjet cutting provides tremendous flexibility in plate processing and manufacturing. This cutting method is not only climate-friendly but the results are always smooth, uniform and burr free.

# WATERJET CUTTING



## EQUIPMENT

### **((1) CNC Flow Mach 4 Waterjet**

- 157" x 235" cutting area
- 100 hp [90,000 psi] intensified pump
- 2 dynamic waterjet cutting heads
- tolerance +/- .001 to +/- .005

### **((1) CNC Waterjet Cutting System**

- 96" x 144" cutting area
- 50 hp blast pump
- CNC Windows based controller

## CAPABILITIES

- Cuts a wide range of materials from 20 gauge to 4" thick
- Cuts: carbon, alloy, stainless steel, aluminum, bronze, brass, and copper
- Suitable for cutting heat sensitive material: rubber, plastics, glass, composites
- Standard cutting tolerance +.005 to +.010

## BENEFITS

- No heat affected zones due to the cold cutting
- Exceptional edge quality requiring little to no secondary finishing
- Raw materials maintain their structural integrity
- Eco-friendly; no hazardous gasses or vapors
- CNC- Controlled robotic motion eliminates costly, time consuming tool changes to accommodate a variety of shape cutting



# VALUE ADDED

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In house capability allows Source Metals to offer its customers, simple addition processes with the placement of one purchase order. This allows machine shops/ fabrication shops/ welding shops and OEMs the opportunity to get turn-key parts with just one call.

## BENDING FORMING

Source Metals can bend and form all grades of steel up to 144" long and 1" thick depending on the angle of the bend.

- (1) 500 ton 6 axis press break with 144" long capacity
- (1) 150 ton 6 axis press break with 144" long capacity
- (1) 130 ton 6 axis press break with 127" long capacity

## EDGE BEVELING

Bevel through 2-1/2" thick carbon and alloy depending on the bevel angle

- (1) Track Torch Beveller
- Bevel straight lines up to 96" in length

## PLATE ROLLING

Rolling carbon and stainless steel from 20 gauge material to 1/4" thick and up to 49" wide depending on the thickness

- Carbon and stainless steel gauge material to 1/4" thick
- (1) rolling forming punch rolls to 1/4" thick material

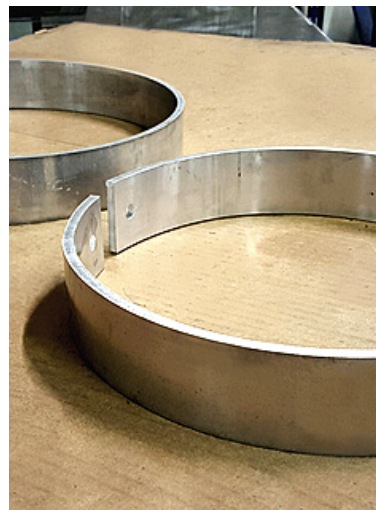
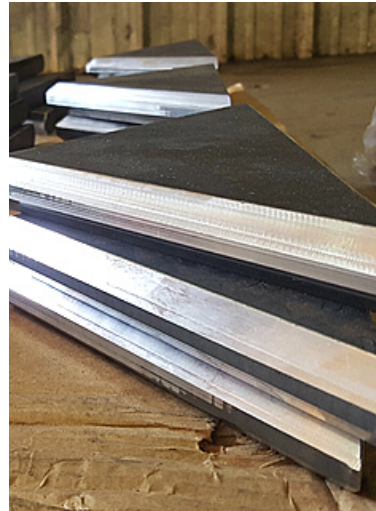
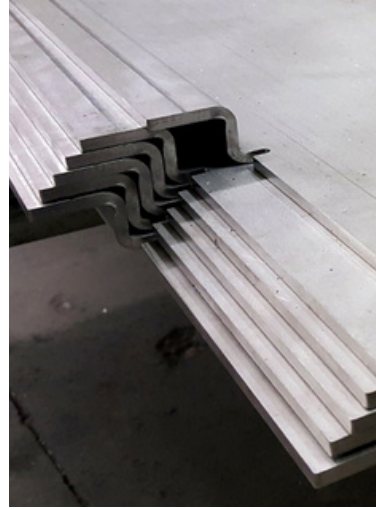
## SIMPLE MACHINING

Drilling and Tapping

- Drilling and tapping up to 3" thick for carbon, alloy, stainless steel, and aluminum

Turning

- Turning up to 31" MAX OD and 16" in length





# PLATE/SHEET STOCK LIST

		CARBON								ALLOY				STAINLESS		ALUMINUM
Grade	Decimal	CR	HRPO	A-36	514 (T-1)	516-70	572-50	A588	A656 G80	4130	4140	1040/ 1045	DOMEX	304/ 304L	316/ 316L	6061
20 Ga	.036	✓	✓											✓	✓	✓
18 Ga	.048	✓	✓											✓	✓	✓
16 Ga	.0598	✓	✓											✓	✓	✓
14 Ga	.0747	✓	✓										✓	✓	✓	✓
12 Ga	.1046	✓	✓							✓			✓		✓	✓
11 Ga	.1196	✓	✓							✓			✓	✓	✓	✓
10 Ga	.1345	✓	✓							✓				✓	✓	✓
7 Ga	.1793												✓			✓
3/16"	.1875		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
1/4"	.250	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5/16"	.3125	✓	✓	✓	✓	✓	✓						✓	✓	✓	✓
3/8"	.375			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7/16"	.4375			✓		✓	✓						✓			
1/2"	.5			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5/8"	.625			✓		✓	✓	✓	✓					✓	✓	✓
3/4"	.75			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
7/8"	.875			✓		✓	✓									
1"	1.0			✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓
1-1/8"	1.125			✓	✓	✓								✓	✓	
1-1/4"	1.25			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
1-3/8"	1.375			✓	✓	✓	✓							✓	✓	
1-1/2"	1.5			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
1-5/8"	1.625			✓		✓										
1-3/4"	1.75			✓	✓	✓	✓			✓	✓	✓		✓	✓	✓
2"	2.0			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
2-1/4"	2.25			✓	✓	✓	✓			✓	✓	✓		✓	✓	✓
2-1/2"	2.50			✓	✓	✓	✓			✓	✓	✓		✓	✓	✓
2-3/4"	2.75			✓		✓	✓			✓	✓	✓				
3"	3.0			✓	✓	✓	✓			✓	✓	✓		✓	✓	✓
3-1/4"	3.25			✓		✓	✓			✓	✓					
3-1/2"	3.50			✓	✓	✓	✓			✓	✓	✓				✓
3-3/4"	3.75			✓		✓						✓				
4"	4.0			✓	✓	✓	✓			✓	✓	✓		✓		✓
4-1/4"	4.25			✓		✓										
4-1/2"	4.50			✓	✓	✓	✓			✓	✓	✓		✓		
5"	5.0			✓	✓	✓				✓	✓	✓				
5-1/2"	5.5			✓		✓										
6"	6.0			✓		✓						✓				
6-1/2"	6.50			✓		✓										
7"	7.0			✓		✓										
7-1/2"	7.5			✓		✓										
8	8.0			✓		✓										

Additional Grades Available: ☐ = LASER QUALITY MATERIAL

CARBON	633 GR C	AR 400	AR 500	API2H	ASTM A569/A570	1010/1011	ASTM A366	ASTM A526/527
STAINLESS	410	17-4						
ALUMINUM			5052	5054				

S I N C E 1 9 8 5

**Source Metals has been dedicated to providing our customers with the highest quality parts at a competitive price. Serving our customers' needs is the top priority at Source Metals. Our combination of equipment and reliable personnel have fueled our ever-expanding customer base.**

