



Your One Stop Cutting Source for...

MULTI-TORCH FLAME

HY-DEFINITION PLASMA

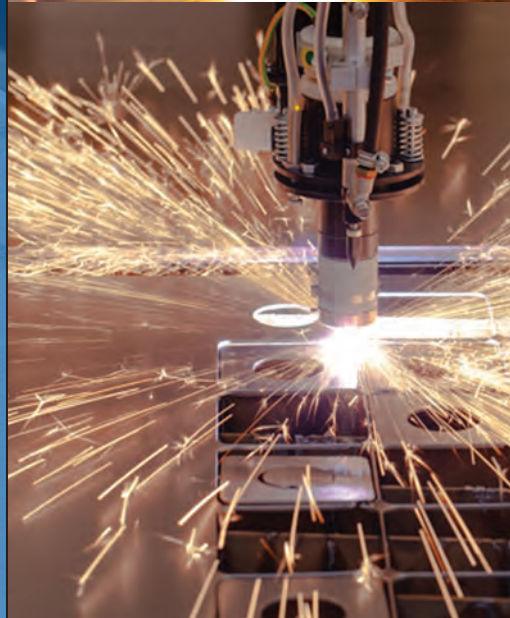
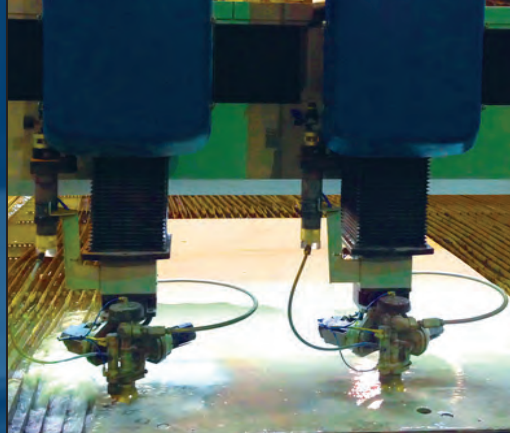
WATER JET

LASER

VALUE **A**DDED



For an online quote, visit:
www.sourcemetals.com



WHO WE ARE

Since 1985, **Source Metals** has been dedicated to providing our customers with the highest quality parts at a competitive price...on time, every time. Serving our customers' needs is top priority at Source Metals.

Our combination of equipment and reliable personnel have fueled our ever-expanding customer base. Since our inception we have made it our goal to provide the most up-to-date **MULTI-TORCH FLAME, HY-DEFINITION PLASMA, WATERJET AND LASER** cutting services in the industry. Our 88,000 square foot facility allows us to stock over 3 million pounds of **CARBON, ALLOY, STAINLESS & ALUMINUM** sheet and plate in our enclosed warehouse. We can supply you with the cut parts you need, when you need it... every order... every day.

Multi-Torch Flame

Flame cutting's simple operation is the leading reason it continues to serve as a mainstay of the plate processing industry. Simple operation equals lower production costs which, in turn, means lower pricing for our customers.

Benefits

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

Capabilities

- ✓ Steel plate burning UP TO 8" THICK
- ✓ Simple/complex shapes from **CARBON** AND **ALLOY** PLATE
- ✓ Operators fully equipped with the tools/training for close tolerance burnouts
- ✓ Standard tolerance of $\pm 1/16"$ to $\pm 1/2"$

EQUIPMENT

(2) CNC Pattern Torch Burning System

- (8) oxy/acetylene torch heads
- 10' x 44' cutting area
- Burny®3 cnc control





Hy-Definition Plasma

Upgrades in conventional plasma technology have enabled the development of hy-definition plasma systems that produce dramatic cutting improvements over previous systems on materials 2" and under. Super-constricting the plasma jet produces an energy density two to three times greater than that of conventional plasma resulting in superior edge quality and squareness and the ability to hold much tighter tolerances.



Benefits

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

Capabilities

- ✓ Hy-definition plasma cutting from 20 GAUGE TO 2" THICK PLATE
- ✓ Parts produced from **CARBON, ALLOY, STAINLESS & ALUMINUM**
- ✓ Standard tolerance of $\pm .020$



EQUIPMENT

(2) CNC Hy-def Plasma Cutting System

- 200 amp Hypertherm® system
- 152" x 276" cutting area
- Burny®5 cnc control

(1) CNC Hy-def Plasma Cutting System

- 200 amp Hypertherm® system
- 84" x 170" cutting area
- Burny®5 cnc control

Waterjet

Waterjet cutting provides tremendous flexibility and versatility in manufacturing. The process itself begins with the pressurization of water levels exceeding 90,000 psi to produce the required energy for cutting. The pump pressurizes the water and continually forces the water through a small opening in the cutting head to form a tremendously powerful, concentrated stream capable of cutting a wide range of materials 1/16" to 4" thick. This pressurized stream can cut virtually any shape in a solitary step with edge quality that routinely requires no secondary finishing.

Benefits

- ✓ No heat-affected zones mechanical stresses due to cool cutting
- ✓ Exceptional edge quality requiring little to no secondary finishing
- ✓ Raw materials maintain their structural integrity
- ✓ Eco-friendly, no hazardous gases or vapors common in other processes
- ✓ CNC-controlled robotic motion eliminates costly, time consuming tool changes to accommodate a variety of shape cutting

Capabilities

- ✓ Cuts a wide range of materials 20 GAUGE TO 4" THICK
- ✓ Cuts: **CARBON, ALLOY, STAINLESS & ALUMINUM, BRONZE, BRASS, COPPER**
- ✓ Suitable for cutting heat sensitive materials: Plastics, Rubber, Glass, Composites
- ✓ Standard tolerance of $\pm .005$ to $\pm .010$

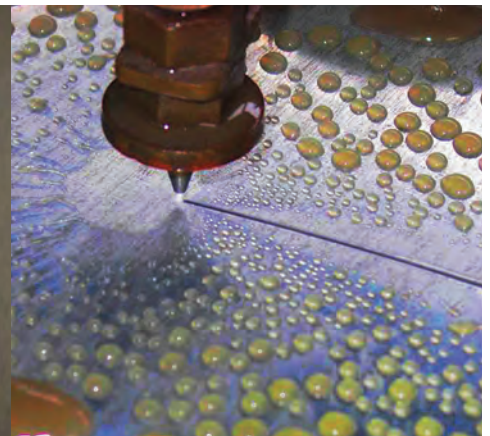
EQUIPMENT

(1) CNC Flow Mach 4 Waterjet

- 157" x 235" cutting area
- 100 hp [94,000 psi] intensifier pump
- 2 dynamic waterjet cutting heads
- Tolerance +/- .001 to +/- .005

(1) CNC Waterjet Cutting System

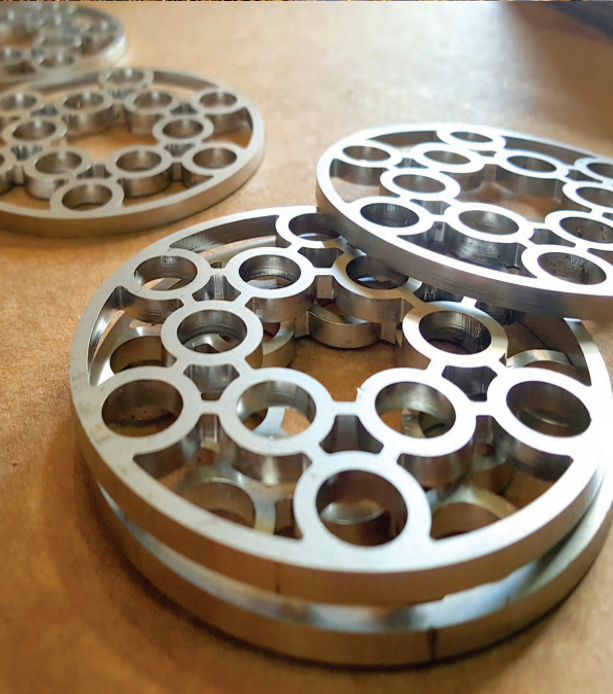
- 96" x 144" cutting area
- 50 hp blast pump
- CNC Windows-based controller





Laser

Today's laser cutting is a fast, flexible, and cost-effective means of processing metal sheet and plate. The process is as simple as it sounds - high amounts of energy concentrated into a small, precise cutting beam. Unlike conventional machine tools that cut metal with instruments made of metal or other materials, lasers do not suffer from tool wear so rough materials can be cut without costly tool changes.



Benefits

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

Capabilities

- ✓ Cuts up to 1/2" THICKNESS IN **CARBON & ALLOY**
- ✓ Cuts up to 1/2" THICKNESS IN **STAINLESS & 3/8" ALUMINUM**
- ✓ Cuts up to 1/2" THICKNESS IN ARMOR PLATE
- ✓ Standard cutting tolerance of $\pm .005$

EQUIPMENT

(2) CNC Laser Machine System

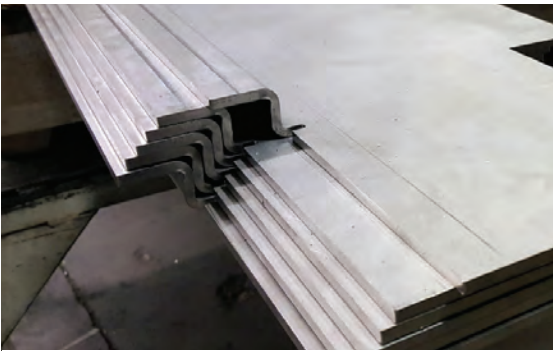
- 60" x 120" cutting area
- 4000 watt laser

With Twin Liftmaster Load/Unload Systems

- Dual towers
- 44 stations @ 6500# each
- Unmanned delivery of material to workstation

Value Added

In-house capacity 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...to Source Metals.



Bending & Forming Services

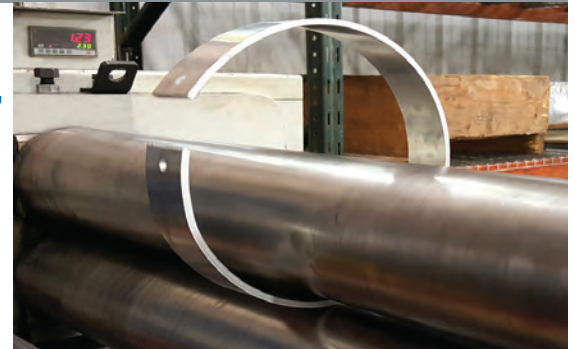
Bending & Forming all grades of steel up to 144" long & 1" thick depending on angle of bend

- (1) 500 ton 6 axis Press Break w/ 144" long capacity
- (1) 150 ton 6 axis Press Break w/ 144" long capacity
- (1) 130 ton 6 axis Press Break w/ 127" long capacity

Plate Rolling Services

Rolling Carbon & Stainless from 20 gauge material to 1/4" thick & up to 49" wide depending on thickness

- Carbon & Stainless from gauge material to 1/4" thick
- (1) Roll forming pinch rolls to 1/4" thick material



Edge Beveling

Bevel through 2-1/2" thick Carbon & Alloy depending on bevel angle

- (1) Track torch beveler
- Bevel straight lines, up to 96" in length

Simple Machining

Drilling, Tapping & Turning for Carbon, Alloy, Stainless & Aluminum

- Drilling & Tapping up to 3" thick **CARBON, ALLOY, STAINLESS & ALUMINUM**
- Turning up to 31" MAX OD & 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 |
|-----------|-----|------|----------|------|------|

✓ **M**ULTI-TORCH FLAME ✓ **H**Y-DEFINITION PLASMA
✓ **W**ATERJET ✓ **L**ASER ✓ **V**ALUE ADDED



✓ **Over 3 Million Pounds of Inventory**



www.sourcemetals.com

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