Atomic INDUSTRIES

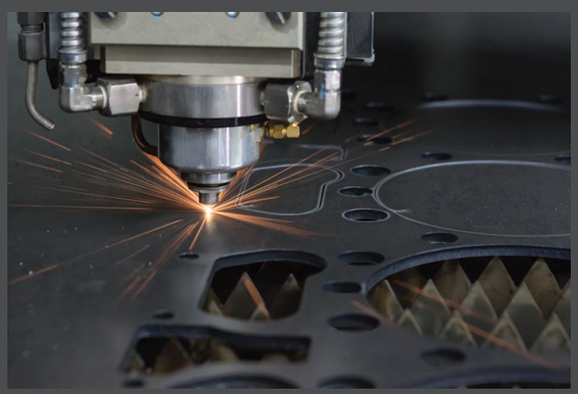
EVERYWHERE, USA

ATOMIC CUT AND FORMING SHOP

Atomic is excited to introduce to its customers' the ability to laser cut, water jet cut and press brake form. Our goal is to become a 1 stop shop for any cutting and forming needs you may have. Having both laser and water jet cutting technology in house allows us to select the right cutting process for your job. Our trained staff can review your project with you in its entirety, then break down each component and help select the machine and process that will give you the optimal product quality. In house drafting and design operations are also available if you only have a concept drawing or rough sketch to start with. Our drafting services can be performed using 3D models in Solid works, or 2D drawings in Autocad. Before any part or assembly leaves our shop, a full quality control check is completed to be sure that we are getting the customer exactly what they asked for. If needed, Discreet drop shipping of your product to your customer or end user is also available

LASER CUTTING

Our new 6KW CNC laser machine can cut materials at high cut speeds and precision in metals and non-ferrous materials. Complex shapes, intricate designs, and precise detail designs for one off prototypes, or large run batches are easily achieved using our laser cutting machine. Our dual shuttle CNC pallet changer allows the operator to load materials, or unload cut parts during the cutting process to help speed up the turnaround time on your projects.



Laser capabilities in 10' X 5' or smaller sheets

- **Mild steel up to 1.25" thick**
- **Stainless steel up to 1" thick**
- **Aluminum up to 1" thick**
- **Brass up to 3/8" thick**
- **Copper up to 3/8" thick**

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PROVEN QUALITY THROUGH DEMONSTRATED INTEGRITY

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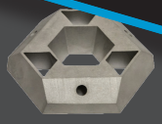
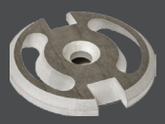
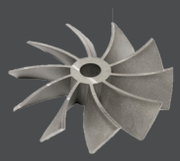

WATER JET

Water jet cutting uses high pressure water with a granular cutting agent to make a narrow cut path through almost any material. Materials we have cut range from foam, plastics and carbon fiber to carbon steel, stainless steel and hardened wear resistant steels. The list of materials we are able to cut is diverse, but not limited to, tool steel, titanium, copper, brass, glass, stone, concrete, ceramics, rubber, wood, and almost any other solid material can be cut using our water jet cutting machine. The water jet cutting process does not introduce any type of heat input into the material, so products maintain the original temper and grain structure after the cut process. No brittleness, or material heat hardening occurs making it a great choice for holes that will later be drilled, tapped or formed along the cut edges. We also have the ability to bevel material edges and holes up to 60 degrees off the vertical plain for weld edge preparation or counter sunk bolts.

Water jet capabilities in 21' 8" X 7' 5" sheets or smaller

Most all solid materials up to 14" thick.

PRESS BRAKE

We are able to bend materials into almost any configuration with our 175-ton 13' press brake. Our press brake is full CNC with offline programming software that communicates with 2D Auto CAD drawings and 3D Solidworks models. We are willing and able to take on any job from small 1 off specialty components to complex, multiple bend configurations that require precise tolerances and repeatability. Our machine is equipped with a quick release hydraulic tool bar making changing of our Wila punches and dies fast and easy. If your project requires a specialty punch or die, we also have the resources to fabricate or modify an existing punch and die combination to bend your product properly.

PRODUCT QUALITY CONTROL DEPARTMENT

If your project requires a QC turn over package, we can deliver. Some industries require materials traceability such as Materials Test Reports (MTR'S) and materials tracking throughout the cutting and bending process. We have state of the art equipment from Olympus including a PMI gun, (Positive Materials Identification), Phased Aray and Shear Wave examination equipment that can be used on materials before, during and after each fabrication process to insure product quality. We are set up with the equipment, skills and personnel to build a QC turnover package and materials traceability package for your records, or your end users records

INDUSTRIES SERVED

Steel manufacturing, Automotive, Aero space, Mining, Heavy equipment, Military, Solar energy, Wind energy, Hydroelectric, Sand and Gravel, Architecture, Concrete industry, Paving industry, Agricultural, Food industry, Signage industry, Oil and Gas sector, Prototyping, Research and Development.

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