

# SOUTHWEST WATERJET AND LASER



Introducing Not Just A New  
22,000 Sq. Ft. Facility...

But *Additionally* Nearly All New  
Machinery

Now Offering Precision Waterjet Cutting Services on the Largest  
Waterjet in Arizona 240" x 120" Cutting Envelope!!



Southwest Waterjet and Laser (SWWJ) owner Mike Gudín and his team unequivocally embody continuous improvement. Mike and the Team at SWWJ are consistently striving to keep up to date with the latest technology and offer the best Waterjet, Laser and Bending Fabrication Services possible, for their customers.

Mike founded the business 13 years ago as a waterjet company, and the company was appropriately named Southwest Waterjet. The company selected waterjet cutting for its business model, Mike says, because waterjet cutting is a superior cutting method for many projects, particularly when the materials being cut are sensitive to the high temperatures generated by other methods. Waterjet cutting causes no heat affected zones (HAZ) or material distortion, he elaborates.

Other benefits from waterjet cutting include cutting tolerances as close as +/- .003", burr-free parts, low contact force of the cutting stream, no distortion or warping of materials, and a small kerf width to allow tight nesting and optimal material usage.

Since waterjet cutting utilizes a high velocity, coherent stream of water and abrasive, it can be used to cut most materials. This includes: stainless steel, carbon steel, tool steels, titanium, aluminum, brass, armor plate, wood, Kevlar, plastics, rubber, UHMW, phenolic, foams, ceramics, marble, granite, glass, ceramic tile, copper and even Hastelloy.

As business grew in the early years Mike determined that while waterjet is an excellent cutting methodology for many projects, there are times when laser cutting is an optimal solution. He and his staff recognized that by adding laser cutting to the business, Southwest Waterjet could give their valued customers another option from waterjet cutting alone. This would give their customers the

option to choose the best technology, waterjet or laser, under one roof, saving them time and money.

So, in 2013, Mike purchased the company's first laser cutting machine, a Trumpf 4000 Watt Trulaser, and renamed the business Southwest Waterjet and Laser, or SWWJ for short. This allowed SWWJ to offer both waterjet and laser cutting .

Consistent with continuous improvement, the company successfully certified to ISO 9001 in 2016. ISO Certification has been a huge boost to SWWJ and allowed them to continually improve their workflow processes.

In 2019 SWWJ added press brake capabilities, purchasing the Trumpf TruBend 5130 machine. The Trumpf 5130 Press Brake allowed SWWJ to integrate their bending and laser cutting into one seamless process. Mike says, "Trumpf has been a great partner to purchase equipment from. The Trumpf Tru Laser and Tru Bend have been outstanding pieces of equipment as far as accuracy, reliability, ease of use and dependability. By adding the Press Brake we were able to add another valuable tool to our Fabrication Support Services offering. By adding the Tru Bend 5130, we can now offer our customers that next step in their fabrication process, saving them valuable time and money on their manufacturing projects."

When you do what you tell your customers you will do and you continuously invest in new technologies in order to provide the best quality products at the right price and on





**Cutting Envelope of 20' x 10'**



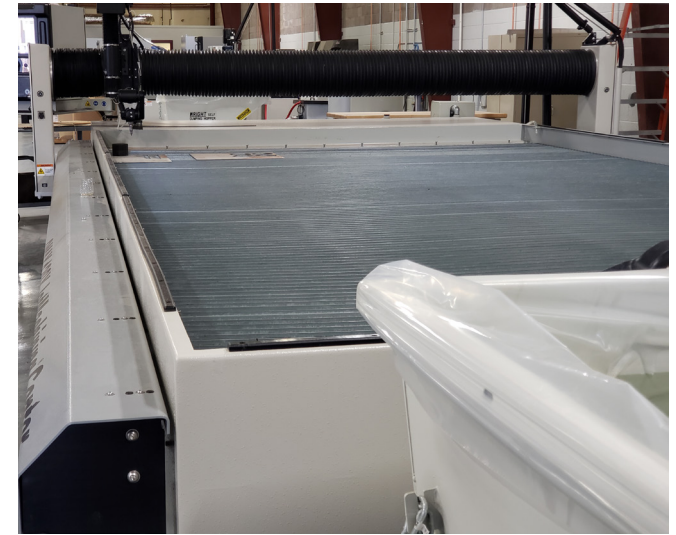
time, your business just can't help but grow.

And so it is the case with SWWJ. This year, they moved into a much larger facility, one that can support their growth and the added footprint they would need as they acquired new machinery. Mike says, "At 22,000 square feet, our new building will allow us to store more material, work more efficiently and offer quicker lead times for our customers. It will also allow us to easily add our next fabrication tool to serve our customers fabrication needs, coming in Q4 of 2020."

Prior to the move, SWWJ owned 4 OMAX waterjets. Mike says these were all several years old, and it was a great time to upgrade to OMAX's latest waterjet technology. Moving to the new facility gave them a unique opportunity to upgrade to all new OMAX waterjets at their new facility, trading out their older ones. All machines came with OMAX's latest 50HP EnduroMax Technology pumps, which allows them to cut faster than ever before.

**Their new OMAX purchases include:**

- An OMAX 120X waterjet with an X-Y cutting envelope of 20' x 10' (Largest in Arizona). The 120x is equipped with OMAX Tilt A Jet technology. This allows us to greatly reduce taper on our customers' parts, where required. Mike says, "To my knowledge, there is no machine shop in Arizona that has a waterjet with this large of a cutting envelope."
- Two OMAX 55100 waterjets, with an X-Y cutting envelope of greater than 8' x 4'. These state of the art waterjets are equipped with the OMAX Pre-Drill technology. It allows us to cut composites, faster and more accurately than ever before. These machines also have OMAXTAJ technology, allowing us to cut parts with near zero taper!



- An OMAX 80X waterjet, with an X-Y cutting envelope of greater than 13' x 6'. This Machine is equipped with OMAX A-JetTechnology. This allows us to cut up to 59-degree bevels on customer parts.

Coincident with the move, the company upgraded its laser capabilities with the purchase of a new Tru Laser 6kw Fiber Optic laser. Mike says, "This laser will cut thicker materials than we have ever been capable of before, on our older lasers. It will also cut thinner materials faster than ever, with exacting precision. With our Fiber Optic laser we can now cut reflective materials such as copper, brass, bronze among others. Our new laser has a uniquely large cutting bed 80" x 160", allowing us to cut 6' x 13' sheets with ease.

SWWJ supports customers throughout Arizona, Nevada, New Mexico, Utah and California. Mike says, "We believe in investing in the equipment, processes and infrastructure to continue to support customers today, and into the future. As a supplier, we know that it is the only way that we can most competitively continue to manufacture parts for you."

**Contact SWWJ for more information on how their Fabrication Services can support your project. They can be reached at 480-306-7748, info@swwj.com or visit swwj.com**