



# SPEED, EFFICIENCY & SAVINGS

## WATERJET SERVICES

Engineering | Manufacturing | Control Systems

[www.ImpaxAutomation.com](http://www.ImpaxAutomation.com)



Impax Automation LLC  
2131 Saturn Court  
Bakersfield, CA 93308  
661.391.8210

[orders@ImpaxAutomation.com](mailto:orders@ImpaxAutomation.com)



# VERSATILITY OF WATERJET CUTTING

At Impax we are consistently utilizing the versatility of waterjet cutting technology to add value to our customer's applications.

## Material Friendly Process

By proper application of waterjet technology Impax can cut the following materials:

- Stainless Steel
- Carbon Steel
- Phenolic
- Ceramic Tile
- Acrylic
- Titanium
- Foams
- Copper
- Aluminum
- Brass
- Ceramics
- Hastelloy
- Armor Plate
- Wood
- Marble
- Silicone
- Kevlar
- Plastics
- Granite
- Armor Plating
- Rubber
- UHMW
- Glass
- Laminates



*“By leveraging the flexibility of the waterjet we are constantly developing new techniques for efficiently manufacturing our customers parts.”*

## VALUE ADDED SERVICE

Our waterjet machinery enables a fast turnaround on parts, while still maintaining the high quality results in custom manufacturing that Impax is known for. Impax offers full service engineering with our waterjet cutting services, full 3D solid modeling capability with Solidworks, 24 hour priority quotations and competitive pricing. Impax waterjet machinery can handle up to 60” x 120” and several inches thick.

### Industries Served

Oil and Gas | Food Processing | Agricultural | Small and Large Prototype | Architectural Manufacturing | Custom Gaskets | Retail/Storefront Power Generation | Custom Signage | Custom Tooling | Custom Art | Furniture | Renewable Energy

## ADVANTAGES OF WATERJET CUTTING

### Machine Quality Finish using Waterjet Machinery

Compared to saw cutting, routing, plasma cut, and laser cutting; waterjet cut finish stands alone. With a smoother, more sandblasted look, free of burnt edges, chips, burrs, and slag: it can save you in unnecessary finishing costs. Waterjet cutting is in fact considered a “finish cut” and is typically used for signs and displays, most popular for its esthetics. This transposes over for many different industries because the finish is typically the smoothest and cleanest.

### No Heat Affected Zone with Waterjet

Unlike laser or plasma cutting that could cause burning or melting, where the cut areas material can become chemically altered due to heat, Waterjet cut parts remain unaffected, due to the fact that water is the medium being used. Water is well known for its insulation and absorption of heat. This can be very critical on applications where the material cannot show any signs of burning or discoloration, or on materials that cannot be cut with laser due to burning; with toxins released into the atmosphere.

### No Mechanical Stresses

The very nature of waterjet cutting places no mechanical stresses into the work-piece. No side pressures are created because waterjet pressure is forced downward, forcing the material onto the table, therefore clamping and fixturing is very minimal and could practically be non-existent. Because there is no metal on metal contact no heat is created, waterjet machining does not introduce any stresses into the material as well.