

Waterjet Cutting



Hi-Tech Welding is a one-stop service center for welding and fabrication in Lee's Summit, MO.

In 1985 Hi-Tech Welding originally began as a tool and die welding facility. Over the years it has grown into a full welding and fabrication shop.

Services offered

- Laser Welding
- Tool and Die Welding
- Waterjet Cutting
- Welding Repair
- Repair and Refurbishment

We are equipped with the newest technology in tungsten inert gas welding machines, a micro-welding unit, as well as three new state-of-the-art laser welding units.

Hi-Tech Welding appreciates your consideration of our services. We will meet your high standards with quality workmanship and help you keep your schedule with a fast turnaround time. We are committed to excellence and look forward to doing business with you in the future.



Waterjet cutting is one of today's fastest-growing technologies and is quickly becoming a leading fabrication process. Waterjet cutting uses a high-pressure stream of water with an abrasive such as garnet to make the cut. No heat is generated during Waterjet cutting, eliminating the risk of material distortion. Edge finish of Waterjet machined parts is smooth and satiny, with no jagged edges, slag or burrs, eliminating the need for other finishing processes such as grinding.

Water jet cutting technology utilizes high pressure water with an abrasive substance to create a cutting tool that travels at three times the speed of sound. With this tool, virtually any material can be cut with or without an abrasive in some cases. The Mitsubishi control, combined with a CAD-CAM generated CNC code, allows for simple or complex shapes to be cut. Speed and accuracy (compensation is within ± 0.005 " per 36" length) are easy to achieve with the Waterjet Intelligent Taper Control™ System.

Waterjet Cuts Virtually Any Material

Waterjet cutting is suitable for nearly any material, and can cut any material up to 6" thick.

We have software that allows us to make high quality ducts, fittings, flanges and brackets. We can create standard parts for HVAC roofing and piping, utilizing a comprehensive library that has round, rectangular, oval, and combination fittings. Fully customizable parts are possible by changing dimensions, offsets, angles, sizes, and shapes. Shapes are drawn in PlasmaCAM, AutoCAD, and DesignFab.

Examples

- Fixtures and nesting
- End of arm tooling
- Rough plate machining
- Custom brackets
- Ductwork
- Signs
- Custom artwork

