



Ultrahigh-Pressure Waterjet Machining

Versatile Processing Solutions

Ultrahigh-pressure abrasive waterjet (AWJ) cutting and machining is an excellent solution for processing advanced materials, including titanium, superalloys, and composites. The waterjet process is extremely versatile, allowing you to cut virtually any shape, material, and thickness. Our abrasive waterjet allows you to cut up to 10 times faster than milling, with a tool life of up to 500 times longer.

Whether cutting turbine blades, blisks, composites structures, or other complex parts, our high-precision solutions are the preferred way to process parts. Waterjet leaves no heat affected zones, and no stress is imparted into your material when cutting resulting in parts with a satin smooth edge directly off the machine. With full 3D cutting capabilities and a +/-100° degree of freedom wrist, our systems offer positional accuracies of +/- 0.1 mm, with the possibility to add additional axes if required.



Manufactured for High Production

Aquarese solutions easily integrate into manufacturing process lines. Designed for 24/7 operation, our waterjet solutions deliver reliable productivity, day in and day out. Continuous part monitoring and abrasive extraction provides maximum productivity for your shop floor. Easily recycle your scrap materials, the waterjet process removes chunks as opposed to chips which improves material utilization which is ideal when cutting high value materials.

Unequaled Expertise

Aquarese delivers unequaled expertise in the field of complex abrasive waterjet cutting for large, thick parts in 24/7 production environments. Our extensive process and application experience are integrated into our solutions. Aquarese waterjet solutions are used in the production of: blower vanes, motor crankcases, diffuser inserts, turbine vanes, turbine disks, structural parts, shielings, tools and controls, boring products, stamped parts, foundry parts, customized material batch cutting, and more.

Lifetime Support

Our team is made up waterjet experts who are highly-skilled in solving the most challenging manufacturing problems. We offer advanced process solutions and training as well as comprehensive preventative maintenance plans, partnering with our customers to provide lifetime support.

Benefits of Waterjet Machining

- Easy integration into manufacturing process lines
- Continuous monitoring/archiving of process parameters
- Continuous abrasive extraction
- Tool wear compensation
- Soundproof enclosures
- Effluent water treatment and closed-loop systems

Solve your most challenging manufacturing needs.

Advanced manufacturing processes and custom solutions for precision parts

Waterjet Machining

- High-precision waterjet machining of composites and superalloys, including fan blades & turbine blades
- Significant reduction of milling time
- 3D nesting with offcut material savings



Waterjet Stripping

- High pressure waterjet coating removal of abrasible & thermal barrier coatings
- Cost effective and eco-friendly
- No damage to base material

Shell Removal & Degating

- Knock out and core removal of any investment, lost wax, or plaster casting for any material
- Complex 3D superalloy parts
- Single operation
- No chemicals or toxic waste

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