

## WATER JET CUTTING



Miscellaneous Parts



Flanges



Miscellaneous Parts

Jones Sign Nationwide now offers abrasive water jet cutting. A water jet cutter is a tool capable of slicing into metal or other materials using a jet of water at high velocity and pressure, or a mixture of water and an abrasive substance. The process is essentially the same as water erosion found in nature but accelerated and concentrated by orders of magnitude. It is often used during fabrication or manufacture of parts for machinery and other devices. It has found applications in a diverse number of industries from mining to aerospace where it is used for operations such as cutting, shaping, and carving.

An important benefit of the water jet cutter is the ability to cut material without interfering with the material's inherent structure as there is no "heat affected zone" or HAZ. Minimizing the effects of heat allows metals to be cut without harming or changing intrinsic properties.

Water jet cutters are also capable of producing rather intricate cuts in material. The kerf, or width, of the cut can be changed by changing parts in the nozzle, as well as the type and size of abrasive.

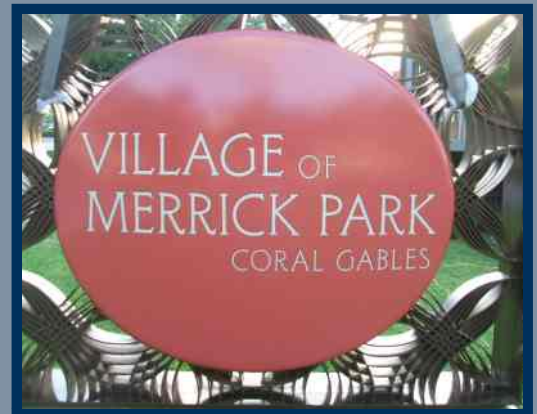
In addition to enhancing Jones Sign Nationwide's capabilities in manufacturing signs and custom fabricated entities, the water jet cutter can be used for many applications. It is capable of cutting through just about anything including metals, stone, plastics, and untempered glass.



5-Axis Single Head Water Jet Cutter



An example of a water jet piece cut from a solid 4" thick chunk of aluminum for use as a decorative structure. Designed by Sussman/Prejza & Company Inc.



Thank You for Being Our Customer!