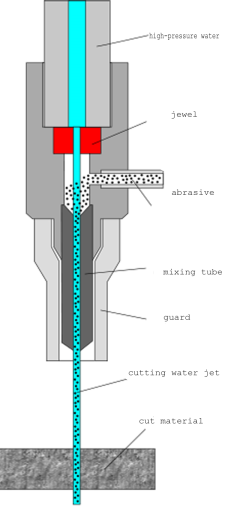
Water Jetting

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Water jet cutters use high pressure water forced through a nozzle to cut though materials. These materials can be either dense such as steel or granite or light weight such as wood or foam. To cut denser materials, an abrasive such as sand, garnet, or aluminum oxide is often added to the jet in the nozzle. Water jetting has many unique advantages to offer when compared to other traditional machining methods. Some of these advantages include being able to cut multiple layers without bonding the edges, no toxic fumes, the elimination of the heat effected zone (HAZ) of the material being cut, and its ability to be used to perform very intricate cuts and carve away the material.

**Uses:**

* Cutting
* Shaping
* Carving
* Reaming

**Tolerance:**

+/- 0.005 (Average)

+/- 0.001 (High accuracy machines)

**Advantages:**

* Does not heat up material or change physical properties
* Easy to cut complex shapes at a relatively high speed
* Metal does not collect slag during this operation
* Can cut layered materials without bonding them
* Can cut heat sensitive materials such as wood and fabric
* Relatively low cost, quotes are available at most companies

**Disadvantages:**

* Cutting thick pieces causes a decrease in dimensional accuracy and the quality of the cut
* Accuracy of cut is directly proportional to the depth of the cut

**Companies offering Services**

**Precision H2O**

6328 east Utah Avenue

Spokane, WA 99212

**PH:** (800)-425-2098

**Web:** http://www.precisionh2o.com

**Additional capabilities:**

* Finish machining
* material bending
* welding
* sandblasting
* de-burring
* coatings

**Nott-Atwater Company**

1309 North Bradley Road

Spokane, WA 99212

**PH:** (509)-922-4522

**FX: (509)**-922-9820

**Web:** http://www.nottatwater.com

**Additional capabilities:**

* Prototyping
* die cutting
* CNC knife cutting
* Extrusions
* custom seals
* custom fabrication
* Kiss cutting

**Spokane Water Knife**

1514 E. Riverside

Spokane, WA 99202

PH: 509-536-6643

FX: (509)-535-0910

Web: http://www.spokanewaterknife.com

**Additional capabilities:**

* CNC milling and lathe work
* forming
* powder-coating

**Forest steel**

7448 Aqua Circle

Dalton Gardens, ID 83815

**PH:** (208)-762-4766

**FX:** (208)-762-5210

**Web:** http://www.foreststeel.com

**Additional capabilities:**

* Laser cutting
* Flame cutting
* Plasma cutting
* Breaking
* Shearing
* Sawing
* Steel rolling

**Additional Information:**

* Large stock of material on hand
* Ships to Pullman regularly