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Waterjet Cutting by James Blee

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Do you know anything about waterjet cutting? Well, waterjet cutting is generally used for cutting plastics and metal as opposed to using regular straight or serrated blades to shape and cut the previously mentioned materials. How waterjet cutting works is actually quite simple, effectively it involves using a special solution of water and an abrasive material which is then shot out at high pressure and focussed intensely into a pinpoint stream. Effectively waterjet cutting is a very precise tool that is used to cut grooves and indentations into materials with great accuracy, with waterjet cutting it is very much possible to get the detail on an object cut in so finely that to the human eye you wouldnâ€™t actually notice it. You might be wondering what is the point of using waterjet cutting if it doesnâ€™t exactly have any major visual benefits, but some mechanical equipment requires the level of precision cutting waterjet cutting gives in order to work correctly. If a grinding machine had to grind something up to a fine dust of a particle level, the grinding mechanics would have to be so small that only precision cutting like Waterjet Cutting could create them. This is only a single example of the uses of waterjet cutting however; in most practical solutions youâ€™ll find it to be just a precise and effective cutting tool akin to bladed contemporaries.

In terms of maintenance waterjet cutting has an advantage over other cutting methods. As there is no blade, it cannot dull. Effectively this entirely replaces the requirement to check the sharpness and edge of the blade for dents or fractures, as no blade is used in waterjet cutting. While it does open doors to a variety of other issues regarding mechanical components, you will find that waterjet cutting machines are very easy to take care of. The major worry about them would be rust, but by using materials and components that do not rust this becomes a non-issue, so youâ€™ve got nothing to worry about at all when it comes to waterjet cutting components getting rusty after a certain amount of use.

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