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Materials such as glass, stone, metals and marble need to be cut and shaped in order to put them to use. In such a situation, waterjet cutting has proven to be one of the most practical and clean methods. Any material that can be converted into a sheet can be cut using this method. Even the most intricate and delicate designs can be achieved with the help of this method. The best part is, you get clean edges and a smooth finish that doesn't even need further finishing in certain cases. This explains why using waterjets have come to be the preferred choice of several artists and creative professionals. From industrial use to flooring inlay industries, this method is being used almost everywhere. That's because the finesse that waterjets provide is not provided by several other heat and blade-based cutting techniques.

So, how can water be used for cutting materials as hard as glass, stone and metals? This can be achieved by forcing a steady jet of water through a tiny nozzle at very high pressure. This waterjet under high pressure is enough to cut materials in the desired shape and size. To increase the cutting abilities of water, abrasives can also be added to it. However, in the case of softer materials such as foam and rubber, plain water can be used to easily achieve the desired cut and shape.

What are the advantages of waterjet cutting?

• It is a rather inexpensive procedure as compared to other cutting techniques. It helps you save time and money.

• Since it uses water at very high pressures, it can be used to effectively cut a wide variety of materials. The entire process is computer controlled giving you extremely accurate results with no errors.

• This cutting technique can be used in heavy duty industrial applications as well as for creative purposes and architectural projects. It is also widely used for flooring inlays and in manufacturing parts for machinery.

• Using a waterjet for cutting is a highly eco-friendly process as it does not emit any hazardous materials. There are no heat affected zones (HAZs) and no other harmful emissions.

• Over all, this process has been known to reduce the mechanical stress that is otherwise induced during a cutting operation.

• It also effectively helps reduce the overall set up costs which ultimately translates into monetary savings.

All in all, this technique is capable of meeting the requirements of a wide variety of industries. It can be even used to cut materials that are up to 7" in thickness. So the next time you have a cutting or designing requirement, you could opt for waterjet cutting and experience the benefits.

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Technology has always fascinated the technician inside me. And writing about the latest in technologies and mechanisms in usage has been my forte over the last few years. Follow my write ups to know about the latest in technologies and mechanisms this season for one. This fall a [waterjet](#), waterjet cutting are very much in demand among the technical and mechanical industries across the world. Keep yourself updated on these products exclusively from USA.

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waterjet cutting, waterjet, flooring inlays, waterjet cutting equipment, waterjet cutters, waterjets

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