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The Importance of Diamond Milling by James Blee

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Diamond milling is much useful to us to create very tiny structures with different shapes and sizes. Regardless of the shape, be it any binary shaped piece to free form ones and its degree of intricacy, any figure can be made possible with minimum fuss via this process.

The major importance of diamond milling lies in the fact that it comes real handy in manufacturing conventional micro optics or engineering injection mold in micro optics. The distinction between this new technology and traditional milling that the shapes created in the later instance is of comparatively larger size than the former one i.e. accuracy is more in the latter case. But there is no major dissimilarity in the mode of functioning of both the processes. The tools and the raw materials needed in diamond milling are available at very low prices.

The hardness of glass is a hindrance to cut or even scratch it with any usual cutting tool. Only diamond bits are capable to cut and in milling them. While working with the plastics, one should be careful about the huge amount of heat that is generated while milling. The regular small diamond milling can be easily handled with a tiny, even piece of diamond bit. A lathe machine is required to turn the diamonds in desired directions as required by the worker. The main intention behind the diamond turning process is to produce optical elements from crystal that are quite commonly found in telescope, video projectors lasers etc. If you are talking about single point diamond turning, automatic tools are best to execute it. Besides milling, diamond is also supportive in grinding. The machines needed in diamond milling are lathes, radial arm drills, punch presses, power shears and both horizontal and vertical milling machines.

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