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A Closer Look at Diamond Milling by James Blee

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Diamond milling comes quite handy to us when we need to intend to create tiny structures varying in their shapes and sizes. Whatever may be the shape and howsoever complex it can be, everything is possible with its help.

Diamond milling is a technology that comes handy in manufacturing custom micro optics or fabricating injection mold in micro optics. The distinction between it and traditional milling that the shapes created in the later instance is of comparatively large size than the former one.. The tools in diamond milling are available at very low prices. Even the costs of buying the bits for this process are too low. The time taken in this process is too low and a lot of money is saved in this way as a lot of work can be done in little time.

Glass is a very hard substance and can be cut or even scratched easily. Only diamond bits are capable of cutting and in milling them. While working with the plastics, one should be careful enough 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. To turn the diamonds as and when required, a lathe machine is normally used. 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.

When it comes to single point diamond turning, automated tools are used to perform it. Besides milling, diamond is also helpful 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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