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Focusing at Diamond Milling Procedure & Tools by Julia Roger

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Diamond milling is one of the most interesting ways of creating microstructures in different shape and sizes. With the help of this procedure, microstructures can be shaped according to oneâ€™s need and liking. In present era, diamond milling is often considered to be an important technology for fabricating and injecting mold in micro optics.

There is a certain difference between conventional and diamond milling. In conventional milling, shapes of microstructures are quite large in size. However, procedure is more or less similar in both the case. There is a very low tooling cost involved in diamond milling. Bits for this process are available at a low price range. It is also a faster process when compared to conventional milling. For cutting diamond or glass, same bits are used. But the scenario is a lot different if the material is plastic.

For small milling tasks, single diamond bit tools are required. Such tools should have flat tips. This is where the milling tools differ from drilling tools. The drilling tools features extra facet. For diamond or glass milling purpose, turn mills are commonly used. The bit should be of diamond (synthetic or natural). Diamond turning of single point is done through the help of computerized tools. It is mainly a process to manufacture different type of optical elements from glass and crystal that are used in video projector lasers, telescopes, and several other research projects.

Machines for milling diamond and glass include lathes, punch presses, radial arm drill, and power shears to name a few. However, during earlier days, only horizontal drilling machines were used for this purpose. Widest variety of drilling and milling machines are available through the internet. Hence, it will be better to shop online as there remain always more chances of availing the best items at reduced price.

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