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Know More about Diamond Milling by James Blee

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Diamond is one of the hardest and the most precious substance on the earth. It goes through a lot of processing and finishing before it reaches us to be used as jewels and other things. Sawing and resin fixing are a few processes used for removing surface impurities of these non metals and make them 100% clean. Diamonds and the processes used in cutting them have other uses too.

The process of diamond milling is used in fabrication of injection molds and micro optics. It is a process similar to the conventional CNC milling with just one difference, that is, with the help of diamond milling, structures that are as small as 1 micron can be created. This is not possible in the CNC milling. Not just the size, this technique is also used for creating smallest of structures in varied number of shapes.

One great thing about diamond milling is that its cost of the tooling is relatively low and goes up to $3000 for the normal process. Custom ones go up to maximum $8,000. The only charge other than the mentioned above comes while machining the optic. Also, the required surface roughness, structureâ€™s depth and the material that is being milled determines the machining time for the milling.

Different materials are subjected to this kind of milling and the most common materials are plastics and glasses. Plastics are difficult to mill as they are very soft and the process of diamond mill is supposed to be done slowly. The most difficult process is the one of diamond milling of metals like stainless steel and others like gold. Today, with great technological advancements and new inventions, high end efficient and fast machines like Turret lathes, double-end stone milling and polishing machines have come up. This process is the most helpful for diamond machining of difficult materials.

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