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You have heard about ceramics. You may have used the same in home too as potteries, tiles or other decorative items with multi color designs on it. You may not ever have realized the vast usage ceramic has in the manufacturing industry, sometimes replacing metals even. Ceramic is being used in the automotive and semi conductor industry in large scale too.

Ceramic Machining is an expensive proposition. In order to reduce the cost researchers are trying to find out alternative methodology and develop state of the art technology. The grinding and lapping process which include mechanisms, monitoring techniques, various forms of abrasives and tri biological properties are being reconsidered. The new methodology of Ceramic Machining includes high rate of material removing with high quality surface finish. The lesser known methodology include ductile grinding, belt center less grinding, lapping , polishing double side grinding, laser assisted grinding and the electrolytic in-process dressing will help reduction of cost in ceramic machining.

The concept of Ceramic Machining is a part of ceramic engineering. Inorganic and nonmetallic materials are used to create objects with science of ceramic technology..

The ceramic industry is huge in size and a continuous matter of research in science and technology. With the advent of time and development in research, the application ceramic has become manifold. Ceramic machining has given a fillip to the cutting edge technology.

Ceramic is also used for manufacturing of ball bearing which lasts long because it does not deform easily. The metal bearings have the tendency of getting heated in friction at a high speed.

Gas turbine engines have ceramic parts too. At present, the blades of the gas turbines have metal parts which tend to get heated and require cooling which are being replaced with ceramic.

Ceramic is being used for medical purpose also for replacement of bones and dental implant. Ceramic easily bond with bones and other tissues.

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