

Analysis of the advantages of powder metallurgy process for electronic cigarette parts



With the expansion of electronic cigarettes into the application field of metal injection molding process, [MIM injection molding process](#) shows new advantages in the electronic cigarette industry. It is understood that MIM, also known as powder injection molding, the technology to metal powder as raw material, using "forming + sintering" method, processed geometric parts with complex shape, uniform organizational structure, excellent performance and other advantages. As a high-efficiency processing MIM injection process, its application in the processing of **electronic cigarette parts** is essential, mainly including the mouthpiece of the electronic cigarette, atomizer base, bottom bracket, shell and other spare parts.

The invention of electronic cigarette has effectively solved the problem that people want to quit smoking and can not quit. The main components of electronic cigarette are batteries, atomizers and smoke bombs. Three combinations make you feel the texture of real smoke without hurting your body. But you need something else to help you with e-cigarettes. Do you know that?

Everyone seems to have bad associations when it comes to smoke, but electronic cigarettes, on the contrary, atomize the smoke to make the effect of real smoke, help you successfully quit smoking. But when electronic cigarettes are exhausted, batteries and cigarette fluids can directly determine your smoking cessation effect. 1. Electronic cigarette

Electronic cigarette has a cigarette character, but don't compare it with smoke. Its design is totally contrary to the idea that smoke is harmful to health. Smoke produced by atomization can give quitters a real sense of smoking, and refreshing feel can make you feel comfortable with real smoke.

It's really a good creative design to use APP to control electronic cigarettes so that Shanlan can emerge instantly without any complicated operation keys. Direct smoking makes your smoke bigger and makes it easy to play with fashion. In the pursuit of a stronger taste, you can also hold the stomata, so that your smoking enjoyment is not only in a flash, let you smoke more enjoyable.

Fully enclosed atomization bin simplifies complex things. With the integrated design, the atomizing core will be integrated into the oil tank without making the atomizing core by itself, which saves the later cost and is simple and convenient to operate. The whole product is made of food grade PP material. It is non-toxic and harmless. Shanlan's original top air intake design makes the seal better and oil leakage is not easy.

So what are the advantages of powder metallurgy process for e-cigarette parts?

1: Powder metallurgy process provides a solution to solve the complex three-dimensional shape of the required parts, for precision electronic cigarette parts can be molded once, high precision.

2: Powder metallurgy process adopts the principle of mim injection molding, which can manufacture complex shapes of electronic cigarette metal products.

3: Powder metallurgy process can mass produce electronic cigarette parts.

4: The mold for producing parts by powder metallurgy process can be designed as one mold with multiple cavities and fully automatic production, which can meet the production capacity demand for precision metal parts for e-cigarettes with high demand.

5: E-cigarette parts produced by powder metallurgy process have good surface and mechanical properties.

6: Powder metallurgy process can reach more than 95% of the theoretical density due to the high densification, which can meet the performance requirements of high strength, high toughness, high hardness and high wear resistance of the electronic cigarette parts, and the surface can be mirror polished.

7: Powder metallurgy process in the customization of complex shapes of e-cigarette precision parts at a lower cost than the traditional process.

Due to the small size, complex shape, high precision requirements of electronic cigarette parts, casting method subsequent machining processes, so it is very difficult to mass produce high quality MIM products, but [Harber Metal](#) precision with rich R & D experience, advanced production equipment and strong technical support, can effectively solve the production challenges posed by the new process of electronic cigarettes. So for powder metallurgy processing of electronic cigarette parts, Harber Metal Precision is preferred.

©All rights Reserved Harber Industrial Limited

URL:<https://www.harbermetal.com>

+86 0769-82389116

+86 13480709275

sales@harber-mim.com