

▽ SPS2000 Spark Plasma Sintering System

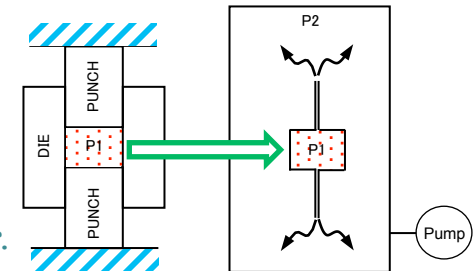


Patent No. 7578259
Patent No. 7602302

DEGAS MODE
available at SPS2000

Large amounts of impurity gases including moisture adhere to the surface of powder when once the powder has been exposed to the atmosphere. Such adhering gases would be released from the powder surface during the process depending on the heating temperature and atmospheric pressure.

The pressure in the powder filling space is increased by heating during sintering, and such adhering gases are released through the clearance of the die and punch, but due to a very small conductance like an injection needle, it has been difficult for unwanted gases to be efficiently exhausted so far.



This time SUGA has come up with a new feature to clean up the powder surface before sintering. The patent for this “DEGAS MODE” was filed as one of those unique features of SPS2000.