

Ammonia Cracker And Nitrogen Generator Ultimate Solution For Powder Metallurgy Sintering Optimization

Our Product Introduction

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Basic Information



Product Specification

- Oxygen Content: $\leq 1\text{ppm}$
- Working Temperature: 800-850 C
- Structure: Vertical/Cylindrical
- Cooling Mode: Air Colling
- Cooling Type: Water
- Certificates: CE, ISO, ASME, GOST, KGS, NB Etc
- Working Mode: Fully Automatic, 24 Hrs Non-stop
- Purity: 99.5~99.999%
- Flow Rate: 50Nm³/h
- Supplied Power: 380V, 460V, 415V,
- Power Feature: Low Power Consupion
- Accessories: Air Purification System
- Flow: 5-1000 Nm³/hr
- Working Duration: 24 Hrs Non-stop
- Dimensions: Customizable



More Images



Product Description

Application of nitrogen generator and ammonia cracking hydrogen production in powder metallurgy sintering
The main uses of nitrogen in powder metallurgy sintering include the following aspects:

1. Protective effect: During the powder metallurgy sintering process, nitrogen can provide protection to prevent metal powder from coming into contact with oxygen in the air, thereby avoiding oxidation of the metal powder.
2. Filling function: During the sintering process, nitrogen can be filled between the metal powders, promoting their densification and increasing the density and hardness of the product.
3. Cooling effect: During the sintering process, nitrogen can be used as a cooling medium to lower the sintering temperature, thereby reducing the oxidation of metal powder and grain growth, and improving the performance of the product.
4. Atmosphere control: In the powder metallurgy sintering process, nitrogen can be used as an atmosphere control agent to adjust the composition and concentration of the sintering atmosphere, thereby affecting the performance of the product.
5. Cleaning function: Before powder metallurgy sintering, nitrogen can be used to clean the equipment and pipelines, remove impurities and gases, and ensure the smooth progress of the sintering process.

In summary, powder metallurgy sintering nitrogen has a wide range of applications, which can improve product performance and quality, optimize sintering processes, and increase production efficiency.



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