

Full-automatic tunnel type continuous hot-pressing sintering furnace



Introduction of fully automatic tunnel type continuous hot pressing sintering furnace

Fully automatic tunnel-type continuous hot-pressing sintering furnace is mainly used for continuous hot-pressing sintering production of diamond saw blades, non-metallic materials, carbon-carbon composite materials, ceramic materials and metal powder materials under protective atmosphere conditions.

Application field of automatic tunnel type continuous hot pressing sintering furnace

Fully automatic tunnel-type continuous hot-pressing sintering furnace is mainly used in colleges and universities and research institutes to sinter composite materials, ceramic materials, hard alloys, artificial diamond tools and metal powder materials under vacuum (or protective atmosphere) hot-pressing conditions. It can also be used for diffusion welding of various materials (such as ceramics, alloys, diamonds, etc.). Various materials are sintered and recrystallized under high temperature and high pressure in the hot-press furnace, which can greatly improve the compactness of the material.

Features of fully automatic tunnel type continuous hot pressing sintering furnace

1. Capable of hot pressing sintering below 900° C.
2. It can be hot-pressed and sintered in a protective atmosphere below 1400° C.
3. Precision control system (precise control of hot pressing sintering temperature, pressure, pressing speed).
4. There is a pressing oil cylinder on the upper and lower sides of the equipment, the pressing speed of each oil cylinder can be adjusted, and the working pressure can be adjusted according to the requirements of the use process.
5. The temperature control is adjustable and can maintain a constant temperature state in a certain temperature range.

The main configuration and technical parameters of the automatic tunnel type continuous hot pressing sintering furnace

1. Working temperature: 1400°C ±10°C.
2. Load heating time: ≤10 hours, load cooling time: 20 hours.
3. Temperature uniformity: ≤±5° C (1400° C).
4. Ultimate vacuum: determined according to process requirements.
5. Working area size: 180mmX190mmX6500mm (according to user requirements).
6. Pressure: 10 tons to 300 tons (determined according to user requirements).
7. Fully automatic material in and out control.
8. The pressing speed is 3min/boat, which can be controlled by program.