

Vacuum test electric arc furnace



Brief Introduction of Vacuum Test Electric Arc Furnace

Vacuum arc melting furnace can be effectively used in powder melting, arc casting, synthesis and densification of metal and non-metal, compound materials. The vacuum arc melting furnace is easy to operate, has high reliability and strong versatility, and at the same time provides ultra-high temperature and extremely pure melting environment.

Features of Vacuum Test Electric Arc Furnace

Because of its simple and easy-to-use internal structure, the furnace cavity is very easy to clean, ensuring the high purity of the sample, and is widely used in high-purity smelting. The arc melting furnace consists of a water-cooled stainless steel bell jar with the electrode shaft passing through the top of the bell jar. The electrodes are secured using ball joints and stainless steel bellows. The furnace bottom is made of stainless steel, and its upper surface can be replaced, and various specifications can be adopted. The system can operate under vacuum to slight positive pressure.

Technical parameters of vacuum test electric arc furnace

Maximum temperature: >3000°C

Electrodes: through the top of the bell jar

Furnace bottom: diameter 500mm, stainless steel, water-cooled interlayer

Bell jar: diameter 500mm×height 300mm, stainless steel, water-cooled interlayer

Electrode tip: 20mm in diameter. Graphite electrode rod

Arc generator: 40mm in diameter. Graphite electrode rod

Observation window: located on the side of the bell, two
Crucible size: inner diameter 150mm, height 200mm.

Equipment usage requirements:

Power supply: 1000A D.C. power supply

Cooling Water: 4 GPM (50 PSI) and 70° F

Vacuum pump: 15L/S vacuum pump

Inert Gas: 2-10 CFM (56.6 - 283.2 LPM)

Typical system:

Including mainframe, vacuum system, inert gas kit, power cord, power supply and cabinet



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