

# Automatic double door mechanical push boat carbon tube furnace



## **Introduction of automatic double furnace door mechanical boat pusher carbon tube furnace**

The automatic double-door mechanical pusher carbon tube furnace is a kind of automatic charging carbonization furnace.

## **Application of automatic double door mechanical pusher carbon tube furnace**

The carbon tube furnace is mainly suitable for the carbonization of metal powder, and can sinter and heat carbides (such as tungsten carbide, boron carbide) and other high-temperature materials and hard alloys in a protective atmosphere.

## **Features of automatic double door mechanical push boat carbon tube furnace**

1. The furnace temperature is 1400–2500 degrees, the furnace tube can be replaced quickly, and automatic constant power temperature control, thermocouple temperature control, and infrared temperature control can be used. It is suitable for producing tungsten carbide and various compound carbides, with continuous operation and high production efficiency.
2. The carbon tube furnace mainly uses carbon tubes to generate heat. The TCW-series temperature controller is used in conjunction with infrared temperature measurement. The temperature controller automatically controls and adjusts the

temperature in the furnace tube. The maximum temperature of the furnace is 2500° C.

3. The equipment is composed of furnace body, carbon tube, insulation layer, inlet and outlet, water cooling pipeline and control system. The furnace shell is insulated with interlayer and high-quality thermal insulation materials are used to improve the energy saving of the equipment. The control part adopts infrared temperature measurement and control.

4. A variety of boat pushing methods are used, and the automatic boat in and out device can be selected (loading and unloading multiple boats at a time). The automatic air curtain furnace door can prevent a large amount of air from entering the furnace, which is safer and helps to improve the life of the furnace tube. In order to meet the user's requirements for power grid balance, a three-phase to single-phase transformer can be provided. The furnace is suitable for producing coarse tungsten carbide powder with low equipment cost.

**Technical parameters of automatic double door mechanical push boat carbon tube furnace**

Model	Working Temp	Dia. of tube	Power	Capacity for WC	Weight	L * W * H
MT-90	2300 C°	90mm	45KVA	~10 kg/h	~1200kg	3*1.0*1.6
MTF-126	2300 C°	126mm	100KVA	~20 kg/h	~2000kg	4.5*1.2*2
MTF-162	2300 C°	162mm	145KVA	~30 kg/h	~2500kg	5*1.4*2.2



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E-mail: [Yalei.equips.com](mailto:Yalei.equips.com)

Tel: +86 18173379676