Dewaxing & Sintering Integrated Furnace with Vacuum/Multi-Gases Controlled

Category: **DEBINDING AND SINTERING FURNACE**

Tags: Atmosphere sintering furnace, Reactive gas sintering furnace, Vacuum sintering furnace, Debinding furnace, Dewaxing furnace, Sintering furnace

Dewaxing & Sintering Integrated Furnace introduction:

The dewaxing & sintering integrated furnace refers to the process of dewaxing, pre-sintering, high-temperature vacuum/atmosphere sintering, and rapid cooling of the furnace body in the same furnace.

Application:

The pressed alloy powder is always heated to a certain temperature (sintering temperature) in the sintering furnace and kept for a certain time (holding time). Then, cool down to obtain the desired properties of the alloy material.

Material application:

Cemented carbide
Hard metals

Cermets
PM-special alloys
Technical ceramics

Dewaxing & Sintering Integrated Furnace function:

Dewaxing/ debinding for all conventional binders: Vacuum dewaxing, Negative (Ar gas) differential pressure dewaxing, H2 gas micro-positive pressure dewaxing (with flowing H2 burn-off system)

Features of the Integrated Furnace:

- Efficient dewaxing and wax collection system, the dewaxing rate is over 95%.

The system directs the forming agent (paraffin) removed from the workpiece out of the furnace. And collect the forming agent as much as possible to avoid the pollution of the forming agent to the furnace and vacuum system.

- Uniform temperature control

It uses three independently and reasonably distributed heaters to ensure temperature uniformity in the heating zone. Equipped with a heater circuit insulation resistance detection system to detect heating system failures in time.

- Precise Control and Measurement

Adopt high-precision measurement and control technology to control pressure, temperature, and flow parameters precisely. It has a perfect and comprehensive data record backup function. It can realize remote control, remote fault diagnosis, and system maintenance operation.

- Rapid cooling, shortening the production cycle

To improve the cooling efficiency of the furnace, a special heat exchanger and a special cooling fan are installed on the rear door.

Technical Data

Model	Effective Zone (mm)	Effective Volume (L)	Max. Temp. (℃)	Ultimate Vacuum (Pa)	Capacity (kg)
CNEQUIPS-DSGF-20/16	200*160*300	10	1550 (2200)	3 (7*10-3)	20
CNEQUIPS-DSGF-25/50	250*230*500	28	1550 (2200)	3 (7*10-3)	50

CNEQUIPS-DSGF-30/60	300*280*600	50	1550 (2200)	3 (7*10-3)	100
CNEQUIPS-DSGF-35/70	350*320*700	78	1550 (2200)	3 (7*10-3)	150
CNEQUIPS-DSGF-40/80	400*380*800	122	1550 (2200)	3 (7*10-3)	200
CNEQUIPS-DSGF-45/90	450*420*900	170	1550 (2200)	3 (7*10-3)	300
CNEQUIPS-DSGF-50/120	500*480*1200	288	1550	3 (7*10-3)	500
CNEQUIPS-DSGF-50/180	500*480*1800	432	1550	3	800
CNEQUIPS-DSGF-55/120	550*520*1200	343	1550	3	600
CNEQUIPS-DSGF-60/120	600*450*900	243	1550	3	450
CNEQUIPS-DSGF-60/180	600*500*1800	540	1550	3	1000

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