

Vacuum atomization powder processing furnace



Application:

Vacuum atomizing powder processing furnace is researched for the atomizing powder processing technology under the condition of vacuum. Vacuum atomizing powder processing furnace is designed for the little batch production of Its working principle is to melt metal and metal alloy under the condition of vacuum, under the condition of protective atmosphere, the metal liquid crosses the holding temperature crucible and nozzle to go out. High pressure gas flow atomizes and break the metal liquid into a large amount of fine liquid drips, the fine drip solidifies into the spherical and sub-spherical grain during the flight so as to process the powder. Vacuum atomizing powder processing furnac is optimal tool of powder metallurgy for the aerospace, national defense and scientific research.

Features:

1. Furnace is able to produce the metal and powder alloy which can't be made in air and the way of water atomization.
2. The furnace can produce the spherical and sub-spherical powder.
3. Just because the quick solidification cam overcome the segregation phenomena, which can produce a lot of special powder alloy.
4. Adopting the appropriate technology, the size of powder grain can come to the needed scope.

Main technical parameters:

No.	Model	Melting Power	Holding Temperture Power	Melting Temperature	Leak Rate	Ultimate Vacuum	Crucible Capacity	Control Mode
1	ZGW-10	60KW	20KW	1700℃	≤3Pa/h	10 ⁻² Pa	10g	PLC plus Touching Screen
2	ZGW-25	100KW	30KW	1700℃	≤3Pa/h	10 ⁻² Pa	25kg	PLC plus Touching Screen
3	ZGW-50	160KW	50-100KW	1700℃	≤3Pa/h	10 ⁻² Pa	50kg	PLC plus Touching Screen
4	ZGW-100	250KW	50-100KW	1700℃	≤3Pa/h	10 ⁻² Pa	100kg	PLC plus Touching Screen
5	ZGW-200	350KW	50-100KW	1700℃	≤3Pa/h	10 ⁻³ Pa	250kg	PLC plus Touching Screen