

Single-tube reduction furnace



Application fields of single-tube reduction furnace

The single-tube reduction furnace is used for the reduction of tungsten, cobalt, molybdenum, nickel, copper and titanium metal oxides, and is suitable for the reduction treatment of carbon powder in the battery industry.

Features of Single Tube Reduction Furnace

1. This equipment is composed of furnace body, boat pushing system, cooling system, control system and other parts.
2. Pneumatic, hydraulic or mechanical boat pushing methods can be set arbitrarily for pushing the material and pushing the boat at a constant speed.
3. The heating zone adopts multi-zone independent temperature control, which can independently set and adjust the furnace temperature and ensure the temperature stability in the furnace.
4. Using a unique furnace structure design, the heating elements are connected in groups, which increases the installation density of heating elements compared with traditional electric furnaces, thereby greatly improving the uniformity of furnace temperature. This design extends the life of the heating element and

improves the ease of replacement and repair.

5. An automatic warehouse door can be set at the material inlet and outlet to form a gas replacement chamber to prevent oxygen from entering the furnace and improve product quality and stability.

6. High-quality refractory materials are selected to save energy consumption by more than 20% compared with traditional furnace types.

7. Equipped with a temperature control system composed of intelligent temperature controller and PID, it has real-time monitoring and alarm functions of water, electricity and gas.

8. Single tube, double tube, four tube and fifteen tube are available.

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Model Property	CNEQS-60-8	CNEQS-84- 10	CNEQS-108- 10	CNEQS-126- 10	CNEQS-180-8
Usable Space (L*W*H) mm	4000 × 220 × 70	6000 × 300 ×70	6000 × 320 × 90	6000 × 300 ×80	5400 × 250 × 80
Quantity of the heating zone	6	4	4	5	10 或 12
Rated Power (Kw)	60	84	108	126	180
Design Temperature°C	1000	1000	1000	1000	1000
Material of the heating tube	321 或 310S	310S	310S	310S	310S
Quantity of the heating tube	2	2	2	2	4
Boat pushing method	Pneumatic, hydraulic or mechanical				
Temperature controlling method	PID + intelligent control				