Summary: This type of oven has a unique design of strong air circulation system, which ensures the stability of temperature. The temperature control system adopts digital display to control temperature, which is intuitive and eye-catching, with reliability protection device and over-temperature alarm. We can design and customize products with special requirements such as supporting imported production lines for users. The equipment shell is made of A3 cold-rolled plate, and the surface is painted, which is beautiful and generous. The inner container of the studio is made of stainless steel, bent and welded by sheet metal. The hot air circulation mode adopts the principle that the left and right sides are exhausted and the top is sucked, so it is repeated. The heating elements are installed in the air ducts at the two sides of the oven, and the circulating motor is installed at the top of the box, which can prolong the life of the motor. The door is single-opened, and the door buckle adopts lever handle. The electrical control panel is installed on the right side of the box. It is convenient for workers to operate, and the electrical appliances are all made of international and domestic famous brands, with the advantages of long service life and high safety performance.

Shell material:	Spray paint was made from cold-rolled sheet with a thickness of 1.2 mm..
Shell skeleton:	It is made of steel Q235, 5#~6# angle steel, etc. after rust removal, the frame is welded.
Inner shell material:	With a thickness of 1.2mm, it is made of 201 stainless steel plate, which is bent and welded by argon arc welding.
Inner shell skeleton	5 ~4# angle steel frame is welded, and 2.0mm steel plate and sheet metal are used locally for reinforcement.
Ventilation plate material:	1.2 mm thick 201 stainless steel plate.

Equipment bottom structure	Trolley flat cart
Door configuration and structure:	Door-opening structure: (1) Door-opening mode: the front door is manually opened in the left direction; (2) The door buckle is made of special handle for oven, and the surface is chrome-coated. (3) Two sets of upper and lower alloy hinges for the gate. Chrome plating on the surface. (4) The bottom plate is made of cold-rolled A3 plate with a thickness of 2.0mmA3. (5) Door thermal insulation material: it is made of high-density and high-quality aluminum silicate cotton thermal insulation and mineral wool thermal insulation board, which has strong thermal insulation. (6) aluminum silicate cotton rope around the compression type tight.
Insulation layer thickness and material:	The design thickness of each part is 150mm according to the consideration of temperature rise outside the furnace and energy saving. The filler material is 150K-grade high-density aluminum silicate fiber, which can resist high temperature of 850℃ and has a thermal conductivity of 0.0048 ∧m/℃.
Box composition:	Box, blower and exhaust system, electrical control part, etc.
Temperature rise of box surface:	According to JB5220-91 industry guarantee, the surface temperature of drying box with working temperature not exceeding 300℃ is not greater than 3℃ at room temperature.

Air intake and exhaust system:	
Air intake: (manual control)	Air inlets are installed with 3 60mm air inlets, which are located in the direction of the motor part of the box, and are used as cold air compensation air inlet.
Exhaust: (manual control)	Two exhaust holes with a diameter of 120mm are located at the top of the oven, and the forced exhaust is set in two-way time. It is recommended that the customer install an external exhaust pipe to uniformly discharge the exhaust gas to the outside of the workshop.
Circulating system:	
Cycle mode:	Forced hot air circulation air supply mode. (After the air of this equipment is heated, the hot air is transported to the air outlet from the left and right sides by the centrifugal circulating fan, which flows out horizontally, enters the working room to fully conduct heat and exchange heat with the baking workpiece, and then is sucked by the top air suction port, so that the temperature of the working room is raised repeatedly. The structure of this equipment and the principle of hot air circulation ensure the temperature uniformity in all areas inside the oven.
Motor device:	750W3 380V high-temperature cycle motors are installed at the top of the box.
Wind wheel material	stainless steel

Heating system:	
Heating element material:	Covered dust-free U-shaped tubular electrothermal generator is adopted, and the power of main heating element is 65KW. Group 1 heating control. The continuous service life can reach over 30,000 hours.
Heating element position:	The heating chamber is arranged in the air ducts on both sides, and the electric heating tubes are placed vertically to increase the heat dissipation contact area.
Heating time:	The temperature is raised from normal temperature to 250℃ for about 35 minutes. (No-load condition).
Note during testing: The testing point should be at least 100mm away from the inner wall material and at least 120mm away from the door wall. The test time should be at least 10-15 minutes after reaching the temperature (constant temperature state).	