



## Vacuum Resin Casting Equipment Transformers Vacuum Plant High Electrical Insulation

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: JC
- Certification: SGS CE,UL
- Model Number: JC450
- Minimum Order Quantity: 1 pcs
- Price: consult
- Packaging Details: Export standard packaging
- Delivery Time: 5 days
- Payment Terms: L/C, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 100pcs/month



### Product Specification

- After-sales Service: One Stop Service
- Warranty: 2 Years
- Movement Way: Combined
- Atomization: Pressure Atomization
- Heating Mode: Transmission
- Color: Customizable
- Hardness: Customizable
- Material: Epoxy Resin
- Process: Vacuum Casting
- Shape: Customizable
- Size: Customized
- Strength: High
- Surface Finish: Smooth
- Tolerance:  $\pm 0.1\text{mm}$
- Chemical Resistance: High



### More Images



### Vacuum-Cast Transformers vacuum plant: High Electrical Insulation & Protection

#### Overview

KC Series of epoxy resin vacuum casting equipment is mainly used for dry-type transformers, dry-type casing, dry-type current transformers, dry-type transformers, high-voltage switch insulation, arc and other electrical products of epoxy resin casting production.

Our company has been committed to the pouring process, equipment research and development, technology in the domestic leading position. My company has an experienced design, manufacturing, installation, commissioning, trial production one of the technical team.

- 1 ,This series equipment used in electrical products with fillers and pouring;
- 2 ,This series equipment is suitable A Epoxy resins, UV-outdoor-type epoxy resin and polyurethane vacuum degassing, a combination of polymer materials and casting, for both foreign and domestic production of resin used.
- 3 ,This series of products can be used for user-filled hybrid and two-component mixed fillers, with great flexibility.
- 4 ,This series based on user demand, to increase or decrease the equipment system, modular Assembly option. Easy to install a high degree of automation and easy to master.

KC Series casting equipment are:

KCB Series standard vacuum casting equipment

KCY Series of standard vacuum pressure casting equipment

KCD Series of electronic measurement of vacuum pressure casting plant

KCJ Series of static mixing vacuum pressure casting plant

#### Description:

A dry-type transformer vacuum epoxy resin casting plant is a facility where dry-type transformers are manufactured using the vacuum epoxy resin casting process. This process involves encapsulating the transformer windings and core in epoxy resin under vacuum conditions, which provides electrical insulation and protection against environmental factors. Here's a general overview of the process and the components involved in such a plant:

**Core Assembly:** The transformer core, made up of laminated magnetic steel sheets, is assembled to create the desired shape and configuration. The core provides the magnetic path for the transformer.

**Windings:** Copper or aluminum conductors are wound around the core to create the primary and secondary windings. The windings carry the electrical current and induce voltage transformation.

**Insulation:** Insulating materials such as Nomex paper or polyester film are placed between the layers of windings to provide electrical insulation and prevent short circuits.

**Vacuum Chamber:** The transformer assembly is placed in a vacuum chamber, which allows for the removal of air and moisture from the system. This step ensures that the epoxy resin can penetrate and encapsulate the windings effectively.

**Epoxy Resin Mixing and Heating:** Epoxy resin, along with suitable hardeners and additives, is mixed in precise proportions to create a viscous liquid. The resin mixture is then heated to reduce its viscosity and improve its flow properties.

**Resin Casting:** The heated epoxy resin is poured into the vacuum chamber, where it fills the voids and encapsulates the windings and core. The vacuum helps remove any remaining air bubbles and ensures complete impregnation of the resin.

**Curing:** Once the resin is in place, the transformer assembly undergoes a curing process. The resin is hardened through a combination of time and temperature, allowing it to solidify and form a rigid, durable insulation system.

**Finishing and Testing:** After curing, the transformers undergo various finishing processes, such as trimming excess resin and cleaning the surfaces. They are then subjected to electrical tests, including insulation resistance, partial discharge, and other performance evaluations to ensure quality and compliance with standards.

The dry-type transformer vacuum epoxy resin casting process offers advantages such as improved insulation properties, increased mechanical strength, reduced maintenance requirements, and enhanced protection against moisture, dust, and other contaminants. It is commonly used in applications where safety, reliability, and environmental considerations are important, such as power distribution networks, renewable energy systems, industrial facilities, and commercial buildings.



### Basic Info.

Model NO.	KCB
Drying Medium	Inactive Gas, Superheated Steam, Effluent Gas, Air
Operational Method	Continuous

Mixing Bowl	300L
Standard	KCB Series Standard
Transport Package	Wooden
Trademark	JC
HS Code	84292990

Material Status	Solution, Strap
Operation Pressure	Vacuum

### Product Description

#### My Company:

Product Name	Vacuum Casting Equipment
Pouring Pot Size mm	2200X3000
Turn-Key Projects	One-Step Service
Specification	900*900*900
Origin	China
Production Capacity	60000PCS/Year

is a high-tech private enterprise, it has a experienced term, which more than ten years engaged in research and development, design, manufacture and installation of vacuum equipment. Besides, it is not only committed to build high quality brand about vacuum equipment, but it also has products, which are widely used in impregnating, epoxy resin pouring, drying, and note oil processing in some industries (like metal heat treatment, transformer, and transformer device, reactor device, regulator device, high pressure electrical, motor, capacitor, switch and other similar industries).

Relying on strong technical advantages and scale advantages, and it also dedicated itself to develop Vacuum application technology and relative vacuum equipment. Main products are different kinds of vacuum casting equipments, vacuum drying equipment, vacuum impregnation equipment, vacuum oiling device equipment, and vacuum heat treatment equipment.

The most important of this company is product quality, and it strictly follows international quality certification system, implementation of quality policy about creating a Kerry brands, building first-class equipment, following innovation for development, and being in accordance with customer service. It also provides the best solution, higher quality products and more valuable and efficient after-sales service for new and old customers.

### Main technical characteristics

1. By vacuum casting system, equipment, vacuum mixing system, two sets of electric heating system, two sets of condensing system, two independent vacuum system.
2. Using thin film degassing, mixing tank, inverter suitable for different viscosity of resin.
3. Filters, two sets of condensation is our independent research and development of double filtration filters effectively protect the vacuum pump.
4. Pouring cans of clean, energy-efficient heating systems, mixing bowl steady heat conduction oil heating system is adopted.
5. Analog screen + PLC Control, stable and reliable, and can be equipped with touch-screen system
6. And two sets of vacuum system on mixing bowl, pouring cans, independence air and high efficiency

NO	Model	mm Pouring pot size mm	Mixing bowl	Vacuum unit(a)	Vacuum unit(a)	Working pressure	Measurement	Control mode
1	KCB-300-2200	2200X3000	300L	2X-70/ZJY-300	2X-30	Atmospheric pressure	Manual	touch screen
2	KCB-300-2400	2400X3000	300L	2X-70/ZJY-300	2X-30	Atmospheric pressure	Manual	Touch screen
3	KCB-400-2400	2400X3000	400L	2X-70/ZJY-300	2X-30	Atmospheric pressure	Manual	Touch screen
4	KCB-400-2600	2600X3000	400L	2X-70/ZJY-300	2X-30	Atmospheric pressure	Manual	Analog screen
5	KCB-500-3000	3000X3500	500L	X-100/ZJY-600	2X-70	Atmospheric pressure	Manual	touch screen

WIGHT:5500kg  
 SIZE:Φ2400mmX3000mm  
 POWER:85000W  
 VOLTAGE:380-400V

**Application : Dry - type transformers**

**Usage: Dry type converter pouring, reactor pouring**

**Capacity : (including 3150) the following dry-type transformers**

**Material : steel**

**Installation: Engineers overseas installation**

**System :PLC+ VACUUM SYSTEM**



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