Resistance Winding Machine

Resistance Winding Machine is to wind the resistance wire for different heaters. To make different heaters, the resistance winding machine maybe different.

RS 328B Resistance Winding Machine

The working theory of RS-328B resistance-wire winding machine for the manufacturing of compact spiral coils is to reel the coil to the payoff with a brake gear, guide the resistance wire to precision spinning by the wire carrier,
and twine the wire around the core axle by an adjustable speed rotary device. The inside diameter of the coil is decided by the external diameter of the core axle, which can be altered free and controlled by coder and electronic counter. The length’s analogue of the resistance wire could be set and amended in the counter to achieve length control. As long as the wire comes to the preset length, it would be cut through displacement or electromagnet. The other counter of the machine records and controls the quantities of the spiral coils. The frequency converter is employed in adjusting the rotational rate of the core axle. The production capacity is 2500 PCs/8h.

RS 328B PLC Resistance Winding Machine

The working theory of RS-328B resistance-wire winding machine for the manufacturing of compact spiral coils is to reel the coil to the payoff with a brake gear, guide the resistance wire to precision spinning by the wire carrier, and twine the wire around the core axle by an adjustable speed rotary device. The inside diameter of the coil is decided by the external diameter of the core axle, which can be altered free and controlled by coder.
and PLC touch screen. The resistance value needed could be set and amended on the touch screen to achieve resistance control. As long as the wire comes to the preset resistance, it would be cut through the displacement or the electromagnet. The PLC can record and control the quantities of the spiral coils, and the adjust control the rotational speed of the core axle.

DRS23 PLC resistance winding machine

DRS-23PLC winding machine is specially designed for the production in such high density electric components of single-end lead-out wires as mica sheet electric components and carbon electric components. The spindle functions as a holder for the frames of those components like magnesium bar, ceramic bar and mica sheet, etc., and the frequency converter takes control of the speed. The winding displacement moves along as the ball screw driven by step motor and the electric components with various pitch intervals are produced. The controller made of the SBC, works as an integrated controlling system and takes accurate control of the procedures of pitch arrange numbers of coils, slow wind, quick wind, quick exit and reset, etc.
DRS24 PLC Resistance Winding Machine

The machine is using PLC plus touch screen control. This machine is designed with reference to imported products, specializing in the production of spinning heating band for manufacturing hot nozzle flat tube. This spinning coil has a very small line width, usually only 0.5mm or even smaller, which makes it difficult to process on other equipments. The machine is using step motor drive, spindle rotating and turning of the winding displacement screw mandrel that can achieve close winding and processing of spiral coil with different thread pitch. The operator inserts a small axial wire into the clamping chuck and make it be clamped, then straightens it with the cylinder and then wires the heating band on the axial wire, until it reaches the preset length and stop auto and is cut by the operator. Max. winding length: 2000mm, Min. mandrel dia: 0.3mm, Min. dia of resistance wire windable: 0.06mm. It can do both single and double coiling.

DRS25 PLC Resistance Winding Machine
RS-25 PLC keeping ends coiling machine is a new machine developed by our factory for automatic resistance coil winding machine. The machine can automatically keep the resistance wire ends when winding, it doesn’t need to pull the wire ends separately when coiling on the frame. By this way, there will be one step less, so the production capacity is higher. The machine is with stable performance, and simple operation, it adopts PLC, touch screen and servo motor to control. The PLC keeping ends coiling machine can automatic load the resistance wire - starting - winding - stopping - cutting and taking out the resistance wire. Further more, the machine can keep the resistance wire in the ends, which makes no human look after the machine. The machine is widely used in winding resistance for heaters of hair dryer, heaters, heating tubes, dry hand machines and so one.

Advantage: (1) the density adjusting (2) to ensure that insufficient pressure, less material, wire broken, wire stuff to automatically stop (3) process detection, fault diagnosis (4) diameter mandrel can arbitrarily change (5) keeping ends, adjustable size (6) automatic winding, hands-machine
separated (7) eight winding mode of positive rotation, inversion, fast winding, slowly winding, single wire, multiple wire, long-term wire, short-term wire.

Remark:

1. RS 328B and RS328 PLC is similar. They are both popular resistance wire winding machine for many home appliances heaters production. RS328B is controlled by coder and electronic counter, while RS328 PLC is controlled by coder and PLC touch screen. For example, if you use RS328B to wind a 200 Ω, you do not know how long shall wind by RS328B, so you may try to wind 50mm long and test, then you find there are 100 Ω, then you will wind double length to test again. If 100mm in 198 Ω, then wind a little long to test. When the length you wind in 200 Ω, then you can send the length on the machine, and start in bulk production.

However, if you use RS328 PLC, it will easily to do it, you just need to enter 500 Ω on the machine, then when the length up to 500 Ω, the machine will cut automatically.

2. DRS23 PLC resistance winding machine is mainly for cartridge heater production. It can used in MGO pins, ceramic bar and mica sheet winding. It is mainly for industrial heater production.

3. DRS24 PLC resistance winding machine mainly for hot runner heater production. It is mainly for industrial heater production.
4. DRS25 PLC mainly for resistance wire need with ends, such as hair dryer heater production. To use DRS25 PLC, it can keep the ends automatically, do not need to put the end out by human after wind by RS328B or RS328 PLC. It mainly for home appliance heaters production.