



亿博绕线机
YIBO Winding machine

YR-450J 电压互感器数控绕线机 CNC winding machine for voltage transformer



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Note :

Due to keeping innovation,
the specification and
Machine pictures or color
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YR-450J CNC circular winding machine for voltage transformer is a high-precision device independently researched and developed by Yibo Company according to the technology requirements of domestic voltage transformer industry. It has the following features: on R-shaped enclosed iron core of voltage transformer that has been treated, clamp the winding framework with the special supporting ring, directly wrap the secondary coil around the framework. Because the iron core needn't to be cut, this avoids its performance damage and improves the comprehensive electric performance of transformer. It shortens the size of transformer, so as to improve the economic benefit greatly.

This machine adopts the international most advanced PLC control technology, with the advantages of complete function and simple operation. It can perform the forward and reversal winding and counting operation, power failure protection, wire disconnection protection, stop brake, setup of winding position, location and fault prompt, meanwhile, it can set the procedures and display the operation state through the touch panel, and, its Chinese interface can properly display the wire diameter, rotation speed, number of turns and number of layer. Its main shaft control adopts the frequency-conversion stepless speed adjustment, with the characteristics of short driving chain, large driving torque, wide speed adjustment range, low noise and so on; its speed control has two modes: automatic setup and foot switch speed adjustment, which take the great convenience for user's operation. Its wire arranging operation is finished by the stepping motor and high-precision ball spline, the control precision can reach as high as 0.001mm. The counting operation adopts the light-grid rotary encoder, the output rotation speed and angle signal are traced with the data, so as to keep the main shaft rotation and wire arranging motion very precise, the error is within $\pm 0.1\%$, the tension controller employs the West Germany damping device, so as to solve the domestic winding operation difficulty such as the wire easy disconnection or coil loosening and dropping for the tension unbalance and easy fluctuation.

YR-450J winding machine also has the following obvious features including the compact structure, high winding precision, wide process range and simple operation. It can adjust the processing range with the iron core and framework size. Through changing the different clamp, it can wind the coils of various casting voltage transformers, it is necessary winding equipment for producing the voltage transformer with R-shaped enclosed iron-core, also the preferred electric engineering equipment in the voltage transformer industry.

主要技术参数 Main technical parameters

漆包线的公称直径 Nominal diameters of enameled wire	$\phi 0.1-1.5\text{mm}$
线圈最大旋转直径 Max rotation diameter of coil	$\phi 450\text{mm}$
线圈最小旋转直径 Min rotation diameter of coil	$\phi 50\text{mm}$
最大绕线幅宽 Max winding breadth	400mm
绕线的转速范围 Winding rotation speed range	1390转/分 rpm
机床功率 Machine tool power	1.5kW
机床的输入电源 Input power of machine tool	220V $\pm 10\%$
机床外形尺寸 Outline size of machine tool	1500x600x1450mm