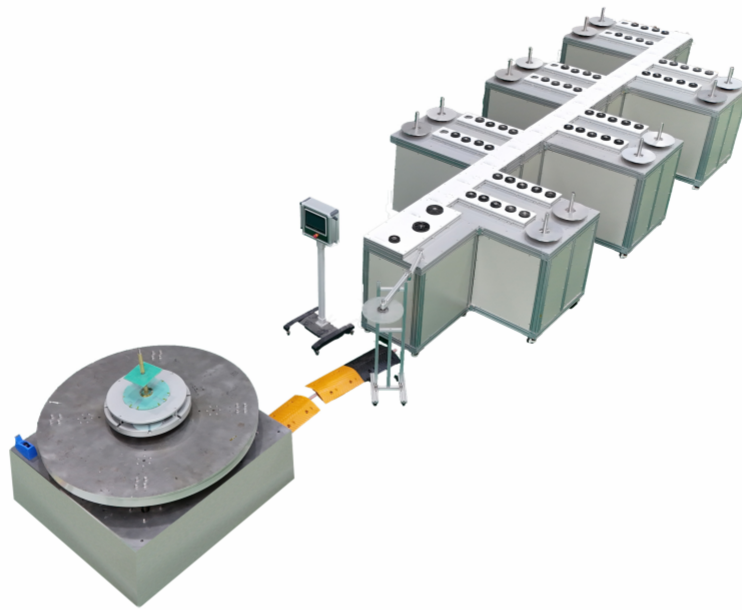


Twelve-axis winding machine

Introduction



This 12-axis vertical winding machine, capable of precise sectional preset of tape feed length, torque, tape tension, angular velocity, and linear velocity, and achieving constant control of tension, angular velocity, and linear velocity during continuous tape feeding. Maximum number of simultaneously fed tapes : 12 (customizable), maximum tension force per single tape: 70N (coil diameter 2m, customizable), tape width range: 4mm~12mm. The user can utilize this equipment as a professional magnet winding device, and can also add various sensors to develop it into a professional in-line testing equipment. It provides a concise user control interface, which is very simple to operate. During winding, data such as tension value, speed, and number of turns can be directly monitored; adjustments to tension value and speed can be precisely controlled, and the take-up shaft can be raised or lowered according to the coil thickness.

Functions

1. Integrated touchscreen interface;
2. Forward/reverse guide tape;
3. Precise control of length, tension, and linear speed;
4. Tension preload protection;
5. Abnormal tension alarm;
6. Take-up spool can be raised and lowered;

Applications

Designed specifically for university laboratories, research institutions, and high-tech enterprises; suitable for general-purpose programmable winding processes. It supports simultaneous winding of 1 to 12 tape strands, with adjustable tension ranging from 1 to 70 N and flexible speed control to suit various processes. Powered by 380 V AC supply, the unit delivers a maximum power of 34000 W.

Parameters

Tape width	4-12 mm
Spool weight	Within 20 kg
Linear velocity	0.8-3 cm/s
Tape tension	0-70 N
Take-up torque	0-3360 N*m
Lifting range	0-180 mm
Dimensions	16.5*1.96*1.5 m
Power	43000 W
Current	63 A
Control interface	Lan port & USB port
Control system	PLC & Touchscreen