



FILAMENT WINDING MACHINE

THE SPECIFICATIONS









Equipment Series: Winding Machine for FRP Pipe (by quartz sand injection)

Linkage axis: 2 axis

Pipe diameter: DN50-DN4000MM

Pipe length: Max. 12mWinding angle: 45° - 90°

Yarn feed speed: 120m/min

♦ Fiber placement accuracy: ±0.1mm

Pipe pressure: Max.3.5MPa

Control system: CNC/computer control

 Joint type: Bell & spigot, flange, taper, locking key, butt joint.



Equipment Series: Winding Machine for Pressure Vessel/Filter vessel

Linkage axis: 4 axis

Spindle quantity: 1/2/3/4/5/6/8 spindles

Structure type: gantry type

Cylinder diameter: DN50-2000mm

Cylinder length: 600-6000mm

Winding angle: 7° - 90°

Angle of swing around nozzle: 0° - 360°

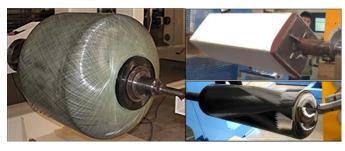
Carriage speed: 0-50m/min

Cross feed arm speed: 0-30m/min

Fiber placement accuracy: ±0.1mm

Control system: CNC/computer control

Winding form: cylinder, cone, sphere etc.







THE SPECIFICATIONS



Equipment Series: Winding Machine for FRP Pole

Linkage axis: 4 axis

Spindle quantity: 1/2 spindle

Structure type: horizontal type

Pole length: max.12m

Winding angle: 7°- 90°

Angle of swing around nozzle: 0°- 360°

Control accuracy: ≤0.1 °

♦ Cross feed arm speed: 0-30m/min

 Fixing method of resin bath: lateral moving together with winding trolley

Control system: CNC/computer control

Winding linear: helix, hoop, and automatic cross

 Brand of motor and driver: Japan Yaskawa servo motor and driver



Equipment Series: Winding Machine for FRP Storage Tank

Linkage axis: 4 axis

Spindle quantity: 1/2 spindle

Tank type: horizontal type, vertical, cone

♦ Tank diameter: DN300-3000mm

DN3000-DN25000mm

◆ Tank length: max.12000mm

Winding angle: 7°- 90°

♦ Angle of swing around nozzle: 0° - 360°

Yarn feed speed: 120m/min

Control system: CNC/computer control

Fiber placement accuracy: ±0.1mm

 Brand of motor and driver: Japan Yaskawa servo motor and driver





THE SPECIFICATIONS



Equipment Series: Winding Machine for High-pressure/Low-pressure Pipe

Linkage axis: 4 axisWinding angle: 7°- 90°

Pipe diameter: DN50-DN600mm

Pipe length: 9000mm

Pipe pressure: 3.5MPa-25MPa

Curing method: internal curing by steam

Winding spindle: 2 spindles

 Winding and curing process complete at the same time

Control accuracy:0.01mm

Control system: CNC control



Equipment Series: Continuous Winding Machine for GRP Pipe

Linkage axis: 2 axisWinding angle: 30°- 90°

♦ Pipe diameter: DN300-DN4000mm

 Pipe length: cut the length of pipe according to client's requirement

 Winding, curing, de-molding and cutting complete at the same time

Control method: CNC control

Control accuracy: 0.01mm

 Brand of motor and driver: Japan Yaskawa servo motor and driver







THE AUXILIARY EQUIPMENT

The filament winding machine is a part of a complete production line for producing kinds of FRP/GRP/GRVE pipes, besides that, we also provide other auxiliary equipments:

- The lining machine
- Curing oven
- De-molding machine
- Trimming machine
- Hydrostatic test machine
- Tension system
- Resin mixing system
- Resin supplying system
- Steel mould
- FRP mould
- Steel fitting mould



Lining device
Automatic and high accuracy



Oven device

Different heating zones by adjustable temperature



Fitting mould
The surface roughness: 0.4

OUR SERVICE

- According to the analysis of the actual needs of customers, we recommend the most appropriate equipment.
- Equipment manufacturing.
- Plant & workshop layout proposals.
- Equipment overseas installation.
- Equipment overseas operation training.
- Equipment maintenance and software & hardware upgrades.
- Production technology & raw material supplying.