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MODEL SPIN WINDER

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CNC CONTROLLED

DUAL HEAD BOBBIN WINDER

In production for 5 decades,
the Spin Winder is now CNC Controlled.



Features

- **Flexibility:** Stationary bobbin allows simple tooling, economical and rapid change to new setups, in addition to its high speed production capability.
- **Dual head operation:** Two separate turret heads allow two coils to be wound simultaneously while the operator removes finished coils. New bobbins can be rotated into position immediately after the previous coils are wound. With the bobbin stationary, the problem of taping down taps before proceeding with the next wind is eliminated.
- **Wide bobbin range:** The machine will handle bobbins up to 2 ½" (64mm) in diameter and up to 5" (127mm) in length.
- **Wide wire range:** Smooth winding action handles wire sizes from #24 AWG (.51mm) to the finest.
- **No loss of operator time:** While two bobbins are winding at high speed the operator may tape, remove and replace the two bobbins that have just been completed. No waiting time for the operator.
- **Taily CNC Controller:** Just program in the number of turns, wire size, winding distance, high speed and low speed RPM and some other basic winding parameters and you are ready to wind highly accurate and repeatable coils.
- **Lower price:** Due to a significant reduction in moving parts and simplified assembly, the new Dual Head Spin Winder is priced several thousand dollars less than the original model.





Dual Head Spin Winder

The Spin Winder is the production equivalent of up to four single spindle machines, and all in a convenient package just 22 inches (559mm) wide.

Conventional coil winding machines rotate the bobbin or coil form, pulling the wire onto the bobbin. The Spin Winder holds the form stationary, and spins the wire onto the bobbin with a winding flyer.

There are several advantages to this method.

First, taps of any length can be pulled out where required without the need for taping the tap down carefully before proceeding with the winding operation.

Second, each coil is also self leading from one to the other which eliminates the “seek, grasp and anchor down” operation on the start lead for each bobbin wound by conventional means.

A third advantage of the Spin Winder is that it lends itself readily to winding difficult bobbins such as greatly unbalanced forms or unusual shapes which are difficult to hold safely for high speed rotation. As the tooling in the Spin Winder is stationary, quick insertion and removal of production aids such as bulky toggle clamps can be easily incorporated into the tooling. These production aids would be virtually impossible to mount on a rotating spindle.

The new Tailly Controller handles all the motion control functions and eliminates the need for a dedicated counter.





The Spin Winder Turret

The turret which is unique with the Gorman Spin Winder is constructed so that two sets of tooling are facing the winding flyers in a position to be wound, while the other pair is facing the operator.

After two coils are wound on the pair facing the machine, the whole turret can be vertically rotated 180 degrees to present a new pair of empty bobbins to winding flyers. The already wound bobbins are presented to the operator for finishing operations, terminating of leads, and removal. A new set of bobbins can be mounted to be ready for winding when the current set is finished.

The increased production possibilities are apparent over conventional methods in that the winding operation on two bobbins is going on during finishing operation. The only down time of the machine is the few seconds it takes to flip the turret over.

A further bonus of this turret is that the finish lead of each bobbin becomes the start lead of the next without further attention of the operator. With proper tooling, the start lead can be accurately dropped into slotted bobbins.

All controls are directly before the operator for ease of operation.

Rugged construction throughout insures years of trouble free production.



General Specifications

Wire Sizes: #24 AWG (.51mm) to the finest.

Coil Sizes: Up to 2 ½” (64mm) Diameter.

Coil length: Up to 5” (127mm)

Tool stations: Four, arranged on a rotating turret with safety interlock.

Speed range: Up to 8,000 RPM. Controller accepts start slow and end slow brake turn count.

Motors: Two DC permanent magnet ball bearing motors with electromagnetic brakes.

CNC control: the controller allows for exact traverse motion coordination with spindle rotation for exact layer winding capability.

Repeatability: Programming of controller allows for multiple machines to have exact same setup.

Power: 115 VAC 50/60 HZ

Dimensions: 22” (559mm) W x 37” (940mm) D x 32” (813mm) H with Dereelers,
14” (356mm) H without.

Weight: 130 lbs (59 kg) net, 185 lbs (84 kg) shipping weight.

Accessories: Two dereelers on top with overhead payoff include adjustable tension control for wire range of #24 AWG (.51mm) to the finest. Four standard fly winding heads available. Tooling services offered.

