

COIL WINDING

Systems from ACE Equipment



LIGHT DUTY COIL WINDERS



MODEL 75,76 and 77

This constant torque winding machine provides a permanent magnet DC motor which drives a gear reducer. Ideal for winding wire from size 30-14 AWG. Loads up to 240 Lbs when used with outboard support such as the Model 65 Tailstock.

MODEL 74

The Model 74 is a constant torque winder offering automatic stop control. Ideal for high production of coils. Easy programmability results in quality and repeatability. Bench mounted, the operator has full control of acceleration and deceleration by use of the remote foot pedal. Soft, smooth starting and stopping are provided with a Permanent Magnet DC Drive



MODEL 40

The Handy Winder is a convenient manually operated unit that winds small coils. Hand crank winding of fans, grinders, solenoids, fractional H.P. motors, automobile starters, generators and armatures.



Model 70 with winding fixture

MODEL 70 SERIES

The 70 series is an ideal, low cost winding drive to wind small coils (wire sizes 30-20 AWG) Models 70 and 71 are designed for bench top use, Model 72 offers a heavy duty cabinet for a solid working surface and storage.

MEDIUM DUTY COIL WINDERS

Model 3-VAS, 3-VPAS

The Model 3-VAS offers constant torque with an AC Flux Vector Drive. Controlled acceleration from zero to full speed prevents shock loads. Speed control through foot pedal or potentiometer. Instant reverse. Can wind round or shaped wire.



Illustration Model 3-VAS

Model MD

A constant torque winding machine with an AC Flux Vector Drive. Engineered for those who require a versatile coil winder with extra high pulling power, and an infinitely variable speed range.



BASIC MECHANICAL COIL WINDERS



MODEL NO. 1

Medium Duty Machine designed to wind wire sizes from 24-14 AWG round and some shaped wire. Versatile machine can wind 1000 lb coil when used with the Model 65 Tailstock. Mechanical counter, belt driven with 6 fixed speeds. Clutch and brake operate simultaneously from the foot pedal.



MODEL 4-AS & 4-PAS

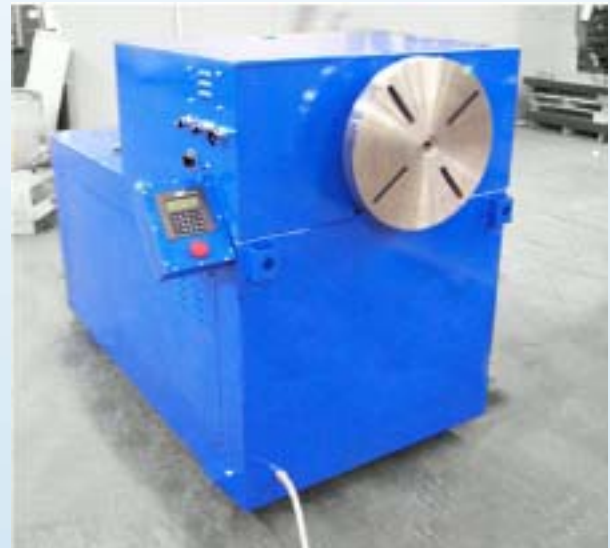
Three Phase coil winder uses a preset counter for automatic stop winding. Infinitely variable speed range to 550 RPM. Can wind wire sizes from 24-14 and some shaped wire. Model 4-PAS offers 16 level preset counter for Single Phase winding.

HEAVY DUTY COIL WINDERS

MODEL HD

A constant torque winding machine with an AC Flux VectorDrive. Engineered for those who require a versatile coilwinder with extra high pulling power, and an infinitely variable speed range. Perfect for customers winding shaped wire and large heavy coils.

The Flux Vector Drive gives you soft, smooth starting andstopping. Controlled acceleration from zero to full speed prevents shock loads, which could break the wire. Up to 8000 lbs. can be loaded on the HD machine WITHOUT outboard support.



TOUCHSCREEN INTERFACE

GL 300T TOUCHSCREEN OPTION

STORES UP TO 200 RECIPES IN MEMORY

- Memory provides the operator a convenient way to easily enter different recipes according to the type of coil being wound.
- The operator merely brings up the recipe alpha-numeric code to automatically load the register with the recipe values.
- Large number of complex recipes can be stored in the panel much more economically than within a PLC.
- Control the coil winder stops, speed AND torque in memory for each recipe.



TENSION CONTROL & TRAVERSING

MODEL 4810-TC820

Designed to apply constant adjustable tension to single or multiple, round, square or rectangular wire, as well as ferrous and nonferrous foil. It also provides a direct readout of the amount of tension. Manual forming and pounding of the coil into shape is completely eliminated. Model 4810-TC820 can be used with many heavy duty coil winding machines. Designed to layer wind single or multiple strands of round, square, or rectangular wire with constant tension.

MODEL 4810/8000

The power driven series 4810/8000 Traverse Stand is designed to automatically traverse single or multiple strands of square, rectangular or round wire. A traversing arm precisely positions the wire on the customer's rotating winding fixture; **operator's hands are off the wire.**

A Touchscreen (Model GL300T) is used to enter and store various programmed coil setups. It controls position or the traversing arm. You are assured of consistently perfect layered coils, with zero crossovers. By integrating each unit, the coil is produced with programmed constant tension, torque and coil winding speed. Operator's hands are off the wire and input is reduced to an absolute minimum. Pounding the coil into shape is completely eliminated.



MODEL 4810V

Designed to apply constant tension similar to the 4810-TC820 but built to assist horizontally positioned coils.



MODEL 44

Tension control for round wire. Will handle multiple sizes. Wire is drawn through adjustable nylon plates.



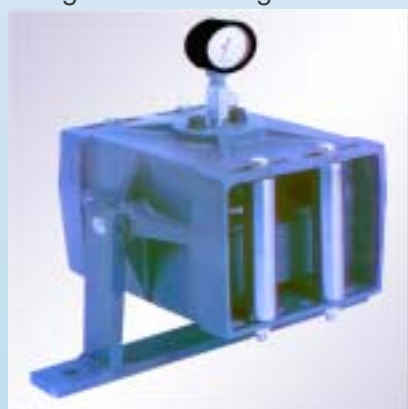
MODEL 45-TD

The wire is drawn through 7 fibre plates which are forced against the wire with cam spring action, giving a uniform pressure that will not change after winding a few coils.



MODEL 46 & 48

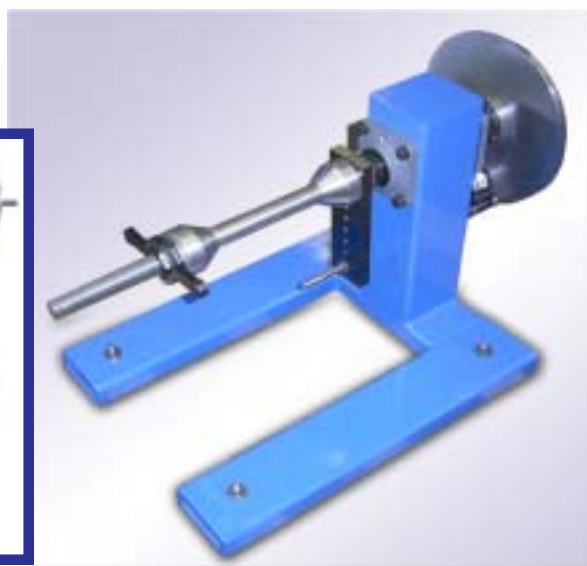
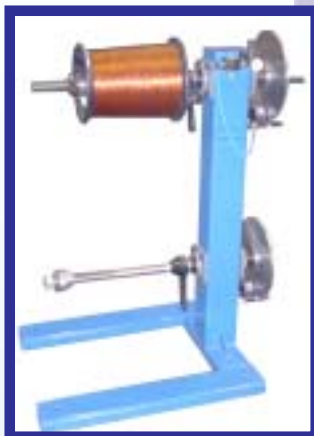
Tension control for round wire or shaped wire. Will handle multiple sizes. Two steel rollers in front and two steel rollers in the back guide the wire. Controlled pressure is applied to the wire as it passes between pressure plates. Will not damage the insulation on the wires. Model 48 offers remote tension via regulated air pressure.



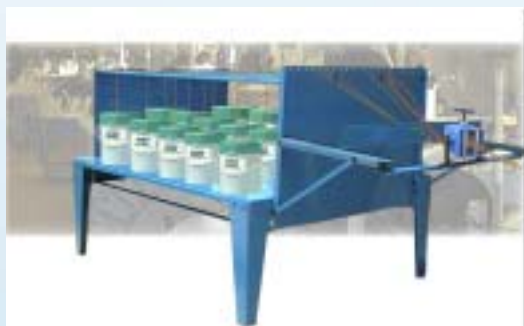
DE-REELING & TENSION STAND

MODEL 431-1B & 432-1B

The air-operated tension system with on de-reeling unit offers remote tension control which eliminates spool roll-in when de-reeling has stopped. Operator can conveniently vary tension at the winding machine. Tension applied by air-actuated calliper brake gripping a 12" disk. Model 432-1B provides two shafts for de-reeling up to 4 24" reels. Optional accessory equipment: two or more brakes, 18" disk, Dual Pressure Control Valve.



WIRE RACKS



MODEL 41 & 42

The ACE Wire Rack offers you a convenient method of storing your wire, plus an efficient material handling system for feeding wire up to size No. 14 from buckets or reels. Wires are guided through eyelets to the two front console panels, where sizes are clearly numbered for ease in selection of wire size, and are immediately ready for use. Model 41 offers a 24 pail capacity. Model 42 offers a 40 pail capacity.

COIL WINDING HEADS



MODEL 5,10,11,12

The ACE Group Winding Heads are designed for winding 3 phase diamond shaped coils. Easy operation, quick setup, heavy duty.



MODEL TL-1500

This single phase head winds offers easy setup. For small integral motors.



MODEL 15-T

This three phase head requires just one setting. Comes with 5 sets of forms and holder.



MODEL 15-L

This single phase head winds comes with 11 sets of forms and quick release holder.



MODEL 15 & 15-S

Loop Winders are built to wind coils that will be formed into diamond shaped coils.

TAILSTOCKS AND OTHER ACCESSORIES

MODEL 65 & 66

The ACE Tailstock is designed for use with any ACE Coil Winding Drive. Heavy duty construction, Ideal for supporting heavy outboard loads. Provided with 8' long rails. Wt. capacity Model 65 - 2,000 Model 66 - 7,000 lbs.



MODEL 4962

This precision-torque tension device provides constant wire tension at each adjustable setting. Applies constant tension to single or multiple round wire from size 14 to 40 AWG.



MODEL 4901

This Tension Device is a rotary tension unit, which provides well regulated and easily adjusted wire tension.



Wind all types of coils on the ACE Coil Winding System. Round, Square, Rectangular shaped wire and foil is all wound precisely and quickly while eliminating pounding and shaping of the coil. No mallets required to make perfect coils.....

3/16" x 1/4" Copper wound from 432-1B De-Reeling Stand, thru 4810/8000 Tension Device to Fixture on HD-05 Coil Winder



.090" x 8" Copper Strap with Nomex wound from 432-1B De-Reeling Stand, thru 4810-TC820 Tension Device to Fixture on HD-05 Coil Winder



SOME OF THE MANY DIFFERENT TYPES OF COILS THAT CAN BE WOUND WITH THE ACE SYSTEM:

- NOMEX WRAPPED
- SDG AND DDG
- FILM AND ENAMEL OVER FILM
- ALUMINUM
- SAVE 3-4% IN WIRE

ace

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