



1400 Series Bobbin Winders



Heavy Duty Winders

Big Features, Heavy Duty Winders

- Sturdy 3/4 Inch Arbor
- Ease of Operation
- Durable and Reliable

Adams-Maxwell Winding Systems

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Welcome

Welcome and thank you for considering Adams-Maxwell for your winding equipment needs. Adams-Maxwell is a U.S. based company located in Los Angeles. There are many reasons why Adams-Maxwell coil winding equipment has quickly become the industry standard—such as precision winding, customer satisfaction, ease of use, and cost. Dollar for dollar, our equipment provides users with price performance features unmatched by our competitors.

1400 Series Bobbin Winders

The 1400 Series is our heavy duty bobbin winder. It is well suited for heavy winding applications with durable bearing plates, roller bearings, 3/4 inch arbor and an industrial strength encoder. Comprised of an electronic counter, DC Motor and a foot rheostat pedal to control the start and speed of the winder. Each machine is equipped with dynamic braking for precise winding control, multi-range electronic foot speed control, bright LED readout to nearest 1/10 of a turn. The arbor rotation can be programmed either as top-coming or top-going with either a negative or positive count. Arbor direction is switch selectable. There are two models to select from depending on your speed and wire size requirements.

| Model | Max RPM | AWG Limit |
|-----------------|---------|-----------|
| 1400-3AX | 1300 | #12 |
| 1400-3A | 300 | #7 |



Pre-sets

Up to ninety-nine different pre-sets can be defined to determine stopping points within the winding operation. Each pre-set can be set as either absolute or additive in defining the number of turns. A series of pre-sets can be sequenced together to form a group which can be identified and individually accessed.

Option P

Adds an interface which allows for the use of the 1239 Memory Modules which are removable plug-in memory modules used to store winding pre-sets for quick setups.

General Specification

Motor type: Appx 1/4 Hp DC Motor, Triac type motor speed circuitry
 Braking: Dynamic
 Speed Control: Multi-range electronic foot control
 Presets: 99 user defined
 Counter Range: 0 to 99,999.9
 Security: Operator lookout code
 Dimensions: L x W x H = 15" x 20" x 15" 60lbs
 Arbor Size: 3/4 inch, includes flat and keyway
 Power: 117V, 48-63 Hz, Approximately 400 VA

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1260 Automatic Traverse

The 1260 Automatic Traverse can be interfaced to the 1400 Series Bobbin Winders to automatically lay the wire into the work piece by traversing back and forth relative to the wire diameter and speed of the bobbin winder. This eliminates the operator from having to hand lay the wire onto the work piece. The 1260 Automatic Traverse is physically mounted on the 1417-2 baseplate and located to the right and slightly behind the winder. The wire is tensioned controlled by a dereeler located behind the traverse and fed over the traverse's wire support arm on to the workpiece. The 1260 Automatic Traverse uses a high precision stepper motor with a powerful microprocessor which provides high precision settings and movement controls to provide excellent layering capability. The traverse is easily set up by simply setting the wire diameter (pitch) and the traverse length by thumbwheel switches and establishing the home(s) and starting traverse direction. The number of turns **and speed are established by the bobbin winder. It's that simple. Flexible tooling for wire feeding allows for multiple bobbins to be wound at the same time to increase your production output.**

Theory of Operation

The 1260 Automatic Traverse uses a photoelectric pick up which senses rotation and direction of the bobbin winder. In the basic operation mode every rotation or fraction thereof, the traverse carriage moves a specific **distance as specified by the "Pitch" setting. The carriage will continue travel in one direction until it reaches the distance specified in the "Length" setting upon which it will reverse direction. It will continue in this manner until the number of turns are reached as programmed on the bobbin winder.** The initial home position and directions are set by the operator. Additional built in programs allow several winding modes including layer winding, multi-home, variable pitch, variable layering and prototyping universal winding.



Controls/Status Lights

Power, Jog Right and Left, Initialize home positions, Go home (right and left), Manual and Auto stops, Pitch Settings, Length Settings, At Home, Manual vs. Auto Mode, will move right/left, Over speed warning, Full-half step mode, Normal/fine pitch, program mode.

General Specification

| | |
|---------------------|------------------------------------|
| Motor Type: | Stepper motor control |
| Traverse Length: | 24 inches |
| Length Increments: | settable to .001 inch |
| Carriage Speed: | 1.0 inch per second |
| Fine Pitch Mode: | .0001 - .0999 in/rev |
| Regular Pitch Mode: | .001 - .999 in/rev |
| Winder Sensor: | Photoelectric pick-off |
| Power Requirements: | 117V 50-60 Hz, 400 VA |
| Dimensions: | L x W x H = 36" x 18" x 15" |
| Weight: | 60 lbs |
| Wire Guide Max: | Guide #5 awg |



Auto Controller

Replaces the foot rheostat pedal of the bobbin winder with an adjustable speed control dial to provide a constant speed. The deceleration rate can be controlled by adjusting the variable brake dial.

Model #: 1431-2

Wire Guide Assembly

Mounts to either the carriage assembly or the guide rail assembly of the 1260 Traverse to guide wire from the dereeler to the work piece. The wire guide assembly comes with a top locator pulley, bottom feed off pulley and a wire grip assembly.



Model #: 1428



Chuck Adapter

Standard Jacobs Chuck which mounts on the arbor as a quick method of holding mandrels. The chuck is secured to the arbor with two set screws.

Model #: 1415

Guide Rail Assembly

Mounts to the carriage assembly of the 1260 Traverse to support up to four wire guide assemblies for multi-bobbin winding applications.

(1428 Wire Guide Assemblies sold separately)



Model #: 1443

Mounting Baseplate with Tail Stock

3/4" thick aluminum mounting base used to mount the 1400 series bobbin winder, 1430 Tailstock and 1260 Automatic Traverse. The tail stock comes with a live center, one stroke action and is made of sturdy cast aluminum. (Note that the 1417-1 is not wide enough to mount the 1260 Traverse.)



Model #: 1417-1
Size: 46" x 18"

Model #: 1417-2
Size: 58" x 28"
(Shown)

Memory Module

This memory module plugs into the back of the bobbin winder where a winding program can be stored, removed and then recalled at a future date.



Model #: 1239