1201 Series Bobbin Winders

Benchtop Winders

Ease of Operation, Proven Reliability

- Multiple Models
- Precision Control
- 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.

1201 Series Bobbin Winders

The 1201 Series is our extremely popular bench-top bobbin winder. It is well suited for medium to fine wire winding applications. Comprised of an electronic multi-preset counter, DC Motor and a foot rheostat pedal to control the start and speed of the winder. Each machine is equipped with dynamic breaking 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 four models to select from depending on your speed and wire size requirements.

Model	Max RPM	AWG Limits
1201-1	5000	#26-56
1201-2	3600	#20-56
1201-3AX	1000	#17-56
1201-3AR	500	#14-56

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: 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 = 10” x 12” x 10” 24lbs
Arbor Size: 1/2 inch for 1201-2, -3AX, -3AR 7mm for 1201-1
Power: 117V, 48-63 Hz, Approximately 100 VA

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1250 Automatic Traverse

The 1250 Automatic Traverse can be interfaced to the 1201 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 1250 Automatic Traverse is physically mounted on the 1217-3 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 to the workpiece. The 1250 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.

Model	Length
1250-1	7" Travel
1201-2	14" Travel

Theory of Operation

The 1250 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:	(1250 –1) 7 inches (1250-2) 14 inches
Length Increments:	settable to .001 inch
Carriage Speed:	0.5 inch per second
Fine Pitch Mode:	.00001 - .00999 in/rev
Regular Pitch Mode:	.0001 - .0999 in/rev
Winder Sensor:	Photoelectric pick-off
Power Requirements:	117V 50-60 Hz, 1 amp
Dimensions:	(1250-1) L x W x H = 10" x 9" x 12"
Dimensions:	(1250-2) L x W x H = 17" x 9" x 12"
Weight:	18lbs and 24lbs

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 #: 1231-2

Wire Guide Assembly

Mounts to either the carriage assembly or the guide rail assembly of the 1250 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 #: 1228

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.

1215-1B	(7mm arbor — **3/8" opening**)
1215-2B	(**1/2" arbor — 3/8" opening**)
1215-2C	(**1/2" arbor — 1/2" opening**)

Guide Rail Assembly

Mounts to the carriage assembly of the 1250 Traverse to support up to four wire guide assemblies for multi-bobbin winding applications.

Model #: 1243-1 (7 inches)
Model #: 1243-2 (9 1/2 inches)

Tail Stock

The tailstock is used when additional support is required during the winding operation. Comes with a live center, one stroke action and mounts on the 1217 baseplate. Made of sturdy cast aluminum.

Model #: 1230

Wire Tube Assembly

Replaces the bottom feed-off pulley of the wire guide assembly for precision winding applications. Comes with one wire tube which must be specified. Additional tubes may be purchased separately.

Model #: 1240 Tube Sizes:
A (awg 20 - 26) B (awg 26 - 38) C (awg 22– 34)
D (awg 28 - 48) E (awg 16 - 20) F (awg 44 - 60)

Mounting Baseplate

1/2" thick aluminum mounting base used to mount the 1201 Bobbin Winder, 1230 Tailstock and 1250 Traverse on a common platform. Measures 33" in length by 12" in depth.

Model #: 1217-3

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.

Note: Bobbin winder must have Option P.

Model #: 1239