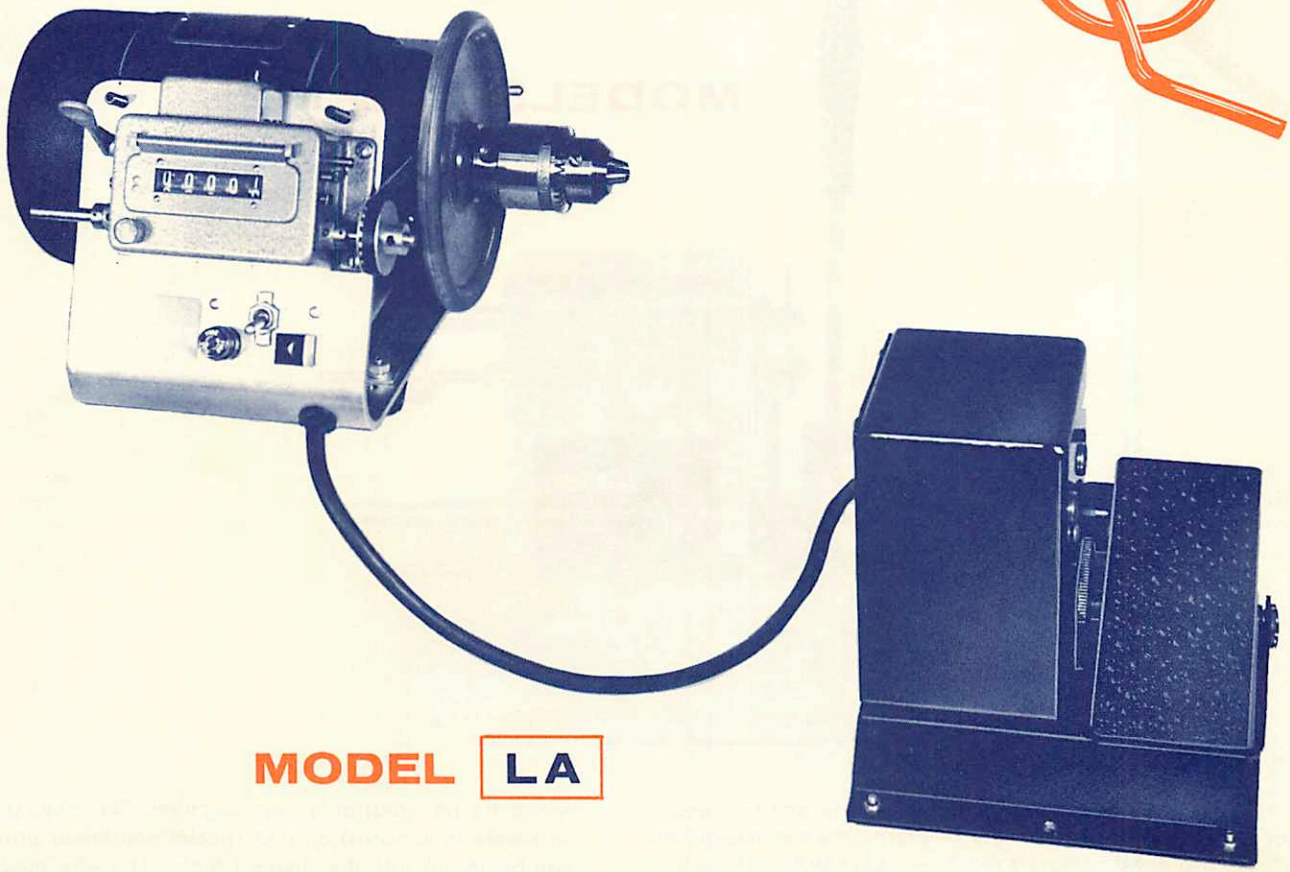
High Speed Hand Winder



MODEL LA

There has long been a need for a sensitive, flexible and convenient high speed hand winder. We believe that this model fills this need. Maximum sensitivity results from winding directly on the motor shaft on which has been installed a suitable lightweight anodized aluminum handwheel. The special high speed counter is driven by a "timing belt" at a 1:1 ratio. As a result of these features, inertia is kept at a minimum and the full range of the motor speed adjustment becomes usable.

In using the term "hand winder" on this page and others we are describing a type of equipment rather than a winding technique. This machine along with our Model A and L is designed to be motor driven. The wire, if it requires guidance, will be guided by appropriately placed stationary guides or by the operator who may actually hold the wire in her fingers or may move an external guide in a fashion to provide proper distribution. For a hand-powered winder see description of Models M & MP.

In the interest of supplying the maximum value for minimum cost, we are supplying this machine in a standard package without option as to motor or control. The motor is a $\frac{3}{16}$ HP DC motor of extremely rugged construction including large ball bearings and a $\frac{1}{2}$" diameter shaft. On this is mounted the handwheel and a key-type chuck. The chuck may be used for mounting coil forms up to $\frac{1}{2}$" in diameter or arbors may be mounted in the chuck. When chucking directly on the form, hand tightening is quick and time saving. The chuck may be removed and special tooling mounted on the $\frac{1}{2}$" spindle nose. The speed is controlled by a variable voltage auto-transformer built into the foot control and the necessary rectifiers and relays are mounted in the box behind the motor. The counter is a subtractive predetermining unit in the normal direction of machine operation. A reversing switch is provided and when it is employed the counter is an additive readout device for visual monitoring. Dynamic braking of the motor in either direction assures accurate count control. This combination of motor and controls provides smooth winding speeds from a few RPM up to about 3500 RPM.