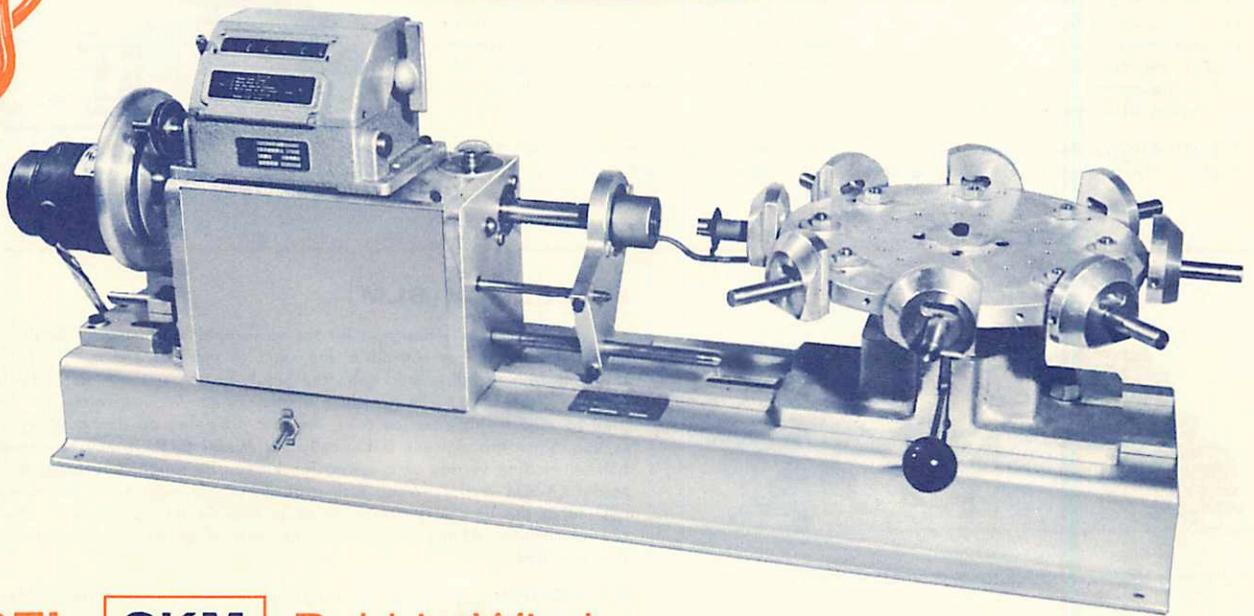


Coil Winders with Manually Operated Turret



MODEL **CKM** Bobbin Winder

The Model CKM illustrated above is typical of a full family of winding machines using a manually indexed turret to achieve high production rates with machines of moderate cost. In general they use the same winding head to provide the traverse and thus possess the same advantages in terms of accuracy and quality in the finished product. By eliminating the motor drive for the turret along with the somewhat complex control circuitry needed to provide automatic sequencing, we reduce the initial investment while maintaining much of the economies of the more expensive machines. This simplification also tends to increase the versatility of the equipment and to reduce changeover time. In addition certain winding specifications can be met using these models in their standard form which would require extensive modification in the more automated counterpart. For example,

while an 8-position turret is standard, more or fewer stations can be provided at a minimum cost and irregular spacing of the stations can be achieved easily; in addition such variations can be made easily by the customer in the field.

The Model CKM is the standard bobbin winding version of this series. It is shown here with a standard predetermining counter with the added feature of automatic overrun compensation (patented). In the unit pictured the spindle must be positioned by hand before the turret is indexed but automatic spindle positioning is frequently provided. With this model, as with others, virtually all of the attachments designed for machines with motor operated turrets may be incorporated. When certain accessories or modifications are specified by the customer, the resulting machine may differ substantially from the illustration.

SPECIFICATIONS

Bench space — 36" x 10½" x 12" high • Weight — 50 pounds • Maximum coil length — 2" • Winding speed — Variable up to 4,000 rpm • Wire sizes — #16 through #56 • Maximum coil diameter — 6" • Turns per layer — 15 to 500 (All specifications can be modified when required)

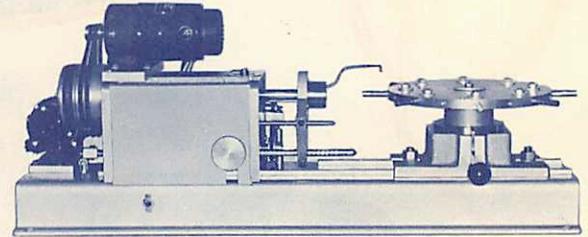
OTHER WINDERS WITH MANUALLY OPERATED TURRETS

We are listing below the most popular versions of our flyer-type machines employing manual indexing of the turret. There are many other models and dozens of variations possible; this list is intended to be suggestive only. The maximum coil diameter given in each case can be increased by the addition of raising blocks. Any of these machines could be adapted to diameters of 4" or more at nominal cost. For greater coil lengths corresponding models are available for coils up to 6" long. To make a final decision as to the appropriate model we should be advised of all the features and capacities you expect to require.

MODEL CK-CPM

This model is a bobbin winder similar to the Model CKM but with the added feature that the wire guide is repositioned at the end of each winding cycle so that the coil may finish at some point in the traverse other than the starting point for the next coil. This feature tends to improve the quality of coils wound with wires heavier than #30 while making possible coil configurations not otherwise obtainable. The machine illustrated has automatic spindle positioning as an extra cost feature.

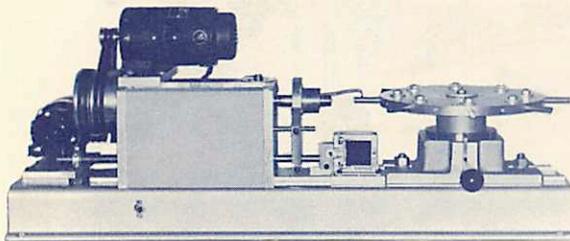
SPECIFICATIONS: Maximum coil length — 2" • Maximum coil diameter — 1¾" • Wire sizes — #16 through #56 • Winding speeds — Variable up to 4,000 rpm.



MODEL CK-SLM

This unit is specifically designed for the very rapid production of single-layer coils. A unique cam and count device eliminates any need of resetting the cam and avoids coil variations resulting from possible backlash. The single-layer cams are not adjustable. They can be supplied with a fixed throw providing a linear or non-linear traverse. The same machine may be used to wind multiple-section coils, the cam providing an automatic transfer from section to section. Since this machine is basically our Model CKM, it may be converted readily to the bobbin winding version or a conversion kit can be supplied to bring the Model CKM to the Model CK-SLM version. When such a dual purpose machine is contemplated, we should be advised at the time of purchase so as to provide the necessary additional features in the control circuitry. At slight extra cost the traverse of this machine can be increased beyond that specified.

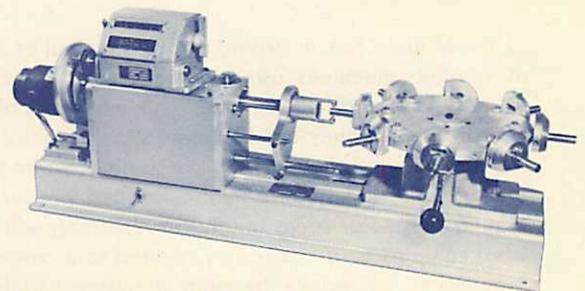
SPECIFICATIONS: Maximum coil length — 1½" • Maximum coil diameter — 1¾" • Wire sizes — #16 through #56.



MODEL CHKM

This machine duplicates the basic Model CKM described on the reverse side of this sheet but the gearbox has been modified and the motor drive altered to permit winding speeds in excess of 12,000 rpm.

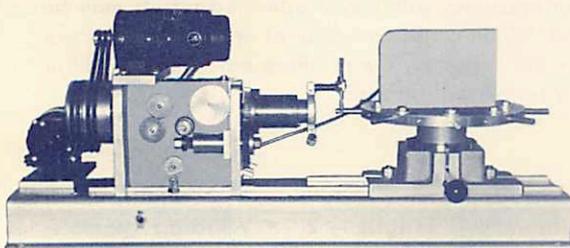
SPECIFICATIONS: Maximum coil length — 2" • Maximum coil diameter — 1¾" • Recommended wire sizes — #32 through #56.



MODEL WKM

This machine winds all kinds of lattice or cross-wound patterns. A special feature is a provision for automatic adjustment of winding button pressure with changes in speed. Winding speeds for a given coil generally exceed those possible with conventional equipment. In order to obtain maximum production rates we do not provide an adjustable cam for this model although the cam can be adjusted for wear. An attachment is available which can convert this machine to the equivalent of the Model CKM and this in turn can be brought to the Model CK-SLM specifications. The model shown features the added advantage of automatic spindle positioning and an attachment for winding progressive universal coils.

SPECIFICATIONS: Maximum Winding Speed for Lattice wound coils — 2,000 rpm • Maximum coil width — 1" • Maximum coil diameter — 1¾" • Wire sizes — single strand #30 through #44 — Litz 120/44 through 3/46.



All of these models embody our patented means of precise count control. A high reliability counter automatically adjusts itself after every coil to eliminate any error that might arise from variations in the overrun.