Machine Features

- HIGHLY RELIABLE AUTOMATIC COIL WINDING
- HIGH SPEED WINDING WITH VARIABLE SPEED DRIVE
- ACCURATE OHMS CONTROL (+/- 1%)
- CONSISTENT CLEAN-CUT ENDS ON THE COILS
- CAN WIND WIRE DIAMETERS FROM 0.1mm TO 1.4mm (.004” to 055”)
- SINGLE OR 2-WIRE (TANDEM) COILS
Our newest Oakley Coil Winding Machine can make spiral coils from wire diameters from 0.1mm to 1.4mm (.004" to .055"). The inside diameter of the coils can range from 0.75mm to 12.7mm (.030" to .500"). With proper setup and maintenance, the machine will produce coils with very consistent resistance values and with open inside diameters for easy assembly to the terminal pins. Because these machines are fully automatic, no operator is required.

Our new model is equipped with a touchscreen control, three servo motor system & variable hi-speed drives, a quick change collet system, and a standard cutoff mechanism. As supplied, it will accommodate spools of wire DIN 80, 100, or 125. These spool sizes will normally handle up to 3.0 kg. (6.6 lbs.) of wire. The tooling supplied with the machine varies according to each customer’s specific coil requirements.

The standard cutoff accommodates single wire coils with a maximum O.D. of 6mm (.240") and a maximum wire diameter of 0.55mm (.022"). The electronic meter-ing system uses an encoder to measure the length of the wire as it is being spiraled into the coil and then triggers the cutoff when the desired preset length is reached. This system holds an accuracy of +/- 1% of the desired ohmic value. The drive system allows the spindle speed to be adjusted. This variable drive is extremely helpful for setting up the machine and also for maximizing the production for each specific coil.

The following are the main options available for this machine:

• **Tandem Winding Attachment** – This is required for producing 2 wire coils. **Heavy Duty Cutoff** – This unit is required to cut all tandem wire coils (2 wires); all single wire coils with outer diameters over 6mm (.240"); and all single wire coils made from wire diameters larger than 0.55mm (.022"). Both the standard and the heavy duty cutoffs are required if you wish to run the entire wire range on this machine. The cutoffs are easily interchangeable.

• **Pail Pack Attachment** – For customers who wish to use large pails or barrels of wire instead of spools, we supply this attachment to help unwind the wire as it is being fed from the pail. If the machine has our tandem winding attachment, then 2 pail pack attachments are required.

• **Despooler** – For customers who wish to use very large spools of wire such as DIN 250 or DIN 355, we offer our automatic despooler. These spools of wire hold 20 kg. or 50 kg. (44 lbs. or 110 lbs.) respectively. Using these large spools of wire eliminates the need for frequently replacing spools when producing a large quantity of coils. The despooler has a combination drive/brake motor with adjustable brake tensioning. When the coil winder is started, the drive motor turns the spool of wire to overcome inertia and prevent the wire from breaking.