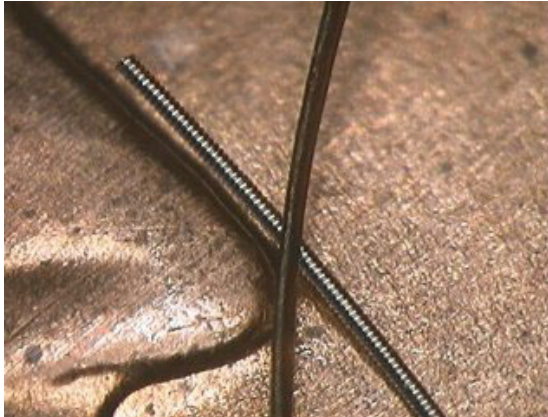
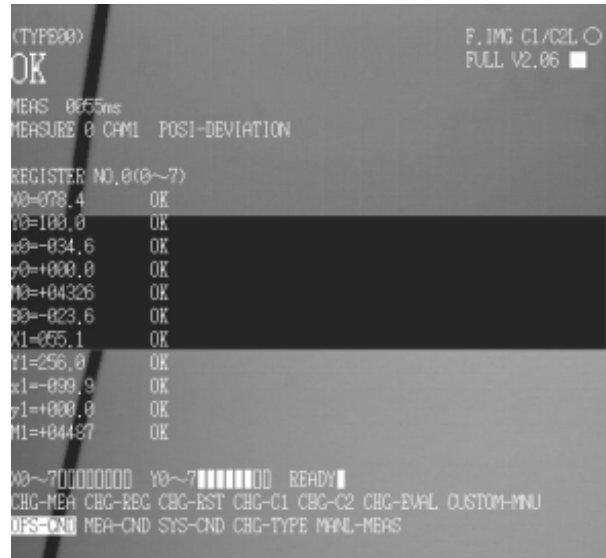


DOUBLE VISION COIL WINDER



Micro coil under a human hair next to Lincoln's nose on a penny.



Screen capture from the vision system used to detect wire wind angle.

SPECIFICATIONS:

- INPUT POWER: 208-240 VAC, single phase, 50/60 Hz. Full load 16A, 20A service.
- WEIGHT: 1,200 pounds.
- DIMENSIONS: L x W x H = 112" x 28" x 72"
- MANDREL SIZE: .001 to .188" diameter, up to 79" long (adjustable mandrel lengths).
- FILAMENT SIZE: .0004" to .025" round solid or tube, or ribbon, metal or plastic.
- WIND SPEED: Up to 6,000 mandrel RPM (higher speeds optional).
- FILAMENT TENSION: 0 to 80 grams with +/- 0.1 gram resolution.
- MANDREL TENSION: 10 to 4,000 grams with +/- 2 gram resolution.
- ANGLE CONTROL: -10 to +30 degrees and a +/- 0.02 degree resolution with vision.
- COMPLIANCE: Built to CE and NFPA 79 standards.

FEATURES:

- Winds stacked (tight pitch) or loose (variable or fixed pitch) coils on a spinning mandrel.
- Adjustable mandrel length for winding coils from 18 to 74 inches long.
- Programmable speed, tension and pitch, or optional angle settings.
- Variable pitch entry menu allows multiple repeating combinations of any pitch, direction and length.
- Digital readout of parameter set points and actual values.
- Records all measured variables on each wind and outputs to a remote DAQ over Ethernet.
- Filament slack control that maintains tension at all wind speeds.
- Brushless servo drives on traverse and both ends of mandrel (no back shaft).
- Alphanumeric color touchscreen display for program entry and status displays.
- Ethernet communication for factory integration capability.

