



503 Single Filar Coil Winder



KEY FEATURES

- Winds stacked (tight pitch) or loose (variable or fixed pitch) coils on a spinning mandrel.
- Right chuck position can be adjusted to get variable mandrel lengths.
- Mandrel length is part of the recipe setting and travel is limited accordingly.
- Up to 250 process recipes can be stored and shared between the two wind heads.
- Recipe edit menu allows up to 30 repeating combinations of any pitch, angle, direction, speed, tension and length.
- Recipe steps can ramp pitch between set points (plus angle ramp with vision option).
- Displays of parameter set points and actual values.
- 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.
- Acrylic enclosure panels with light curtain to isolate each winder operation.
- Ethernet communication for remote monitoring & program update capability.
- Color monitor display of B/W vision-based angle measurement (vision option only).
- DIN 80 and UFW filament Spool Capable

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 = 115" x 29" x 76" (with monitor)
- Mandrel size: .250" Diameter max
- Travel: adjustable 0" to 72" (182cm) with suitable winding accessories
- Filament size: .001" to .015" round solid or tube, or ribbon, metal or plastic
- Wind speed: up to 75 rps and 10 in/sec traverse speed
- Filament tension: configurable ranges from 5 g min up to 75 g max
- Mandrel tension: configurable ranges from 45 g min up to 32 Kg max
- Mandrel length: adjustable from 5" to 75" (12 to 190 cm)
- Optional angle control: +10° / -30° with +/- 0.02° resolution
- Compliance: built to CE and NFPA 79 standards