

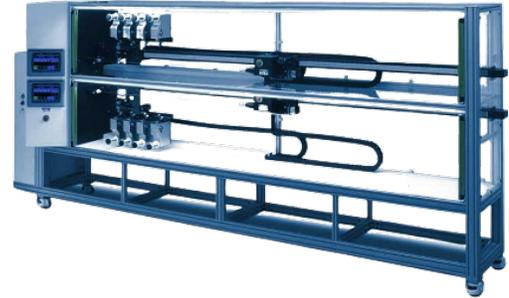


## Multi Filar Coil Winding

The multi filar coil winder machine uses a 2-camera vision system to wind fine filaments around a spinning mandrel and produce multi filar micro coils with up to 8 filars. EBD coil winders allow **exacting control of all winding parameters**, including programmable wire tension – capable of tight precision down to extremely low values.

Wind coils down to .0001" diameter wire on a .001" mandrel using our **innovative closed loop filar tension** control system.

Combinations of **menu-selectable variable** and **tight-pitch wind capability**, plus single, multi-filar, variable and continuous mandrel length, machine vision and other custom features are available.



### KEY FEATURES

- Filament .0001" to .015" Limit travel distance & mandrel length in recipe setting
- Filament slack control that maintains tension at all wind speeds
- Store up to 250 process recipes shared between two-heads
- Brushless servo drives on traverse and both mandrel ends (no back shaft)
- DIN 100 filament Spool size capable
- 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)
- Expandable to 6 filars per head and up to 200" of Traverse Travel
- Alphanumeric color touchscreen display for program entry and status displays

### SPECIFICATIONS - 4 HEAD MULTI-FILAR

**Spool size:** DIN 100 maximum

**Input power:** 208-240 VAC, single phase with ground, 50/60 Hz.

**Weight:** 1,450 pounds

**Dimensions:** 167" L x 31" W x 75" H

**Mandrel size:** .250 diameter max

**Travel:** Adjustable zero to 106" (42 cm) with suitable winding accessories & 2" mandrel stretch

**Filament size:** .0004" to .015" round solid or tube, or ribbon or metal - one to 4 filars per head

**Wind speed:** Up to 85 RPS and 10 in/sec traverse speed

**Mandrel tension:** Manual lever actuated, screw adjust (standard); pneumatic (optional)

**Filament tension:** Configurable ranges from 5g min up-to 75g max

**Mandrel tension:** Configurable ranges from 45g min up-to 20g max

**Mandrel length:** Adjustable from 21" to 116" (54 to 295 cm)

**Optional angle control:** +10/-30 deg. with +/- 0.02 deg. resolution

**Compliance:** Built to CE and NFPA 79 standards



EBD is proud to be an MMT company – the sole source for automated, process-driven medical manufacturing. Medical Manufacturing Technologies (MMT) brings together applications expertise, technical solutions, and aftermarket support to revolutionize medical device manufacturing.

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