

## Model SMC-1E

### PLC Controlled Toroidal Winding Machine



Jovil Universal Zhingshan Ltd is proud to present the model SMC-1E. This is a new model based on the same SMC-1E model done by Jovil USA. This new model now uses a PLC and Human Machine Interface Control System, It has more functions and is able to display in various languages. With the touch screen display, it is easy to operate and anyone can learn to use it within minutes. Other than the shuttle, all other parts were made in China keeping the machine at low price. All Winding Heads and Core Rotators from Jovil USA will readily fit to the SMC-1E base.



#### Principle and Optional Features

- Seperate speed controls for loading and winding
- Programmable stepper motor driven core rotation in either direction with minimum backlash
- Display language can be done in English and Chinese
- Display the status in a touch screen HMI
- PLC control system can store up to 249 single programs, 265 multiple programs, 100 tape programs
- Built in fiber optic turns sensor; double display, easy adjustable, utmost accurate, stable and reliable
- Quick change winding heads, core rotators
- Compatible to imported Jovil winding heads
- Apply 1/2HP 6000RPM DC brushless motor which supplies more torque and maintenance free.
- Automatic core index function
- Push button and footswitch controls
- Tape head control

#### Specification / Capabilities

Maximum Wire Size : 1.0mm (#18AWG)  
Minimum Wire Size : 0.05mm (#46AWG)  
Maximum O.D: 101.6mm (4.00" )  
Minimum O.D: 3.26mm (0.125" )  
Minimum I.D: 1.00mm (0.040" )  
Maximum Height: 50.8mm (2.00" )  
Winding Speed: Variable to1600TPM  
Wire spacing: Programmable with controller

Segment Winding: Programmable with controller  
Progressive Winding: Programmable with controller  
Deceleration: Programmable with controller  
Acceleration: Programmable with controller  
Motor: Hybrid Stepper Motor  
Power Requirement: 220V, 50/60Hz  
Crated Dimension: 94X94X107cm (37" X 37" X 42" )  
Crated Weight: 45kg (100lbs)