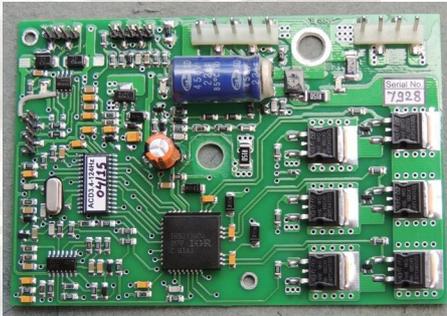


With great advantage of substantial power saving, very much reduced maintenance, ability to easily run at higher line speed, the age old 'Magnetic Winders' have now become obsolete. With over 15 years of experience in useful and reliable product development for woven sack industry, we have come out with various options for electronic cheese winders.

We have developed various components mainly Tension Controller AC Drive card, Analog sensor, Power supply Card, Line Speed Synchronizer and accessories.



AC Drive Card

#### ● AC Drive Card

This card is the heart of Electronic winder. It controls all the functions of Electronic winder. It has matched PID controller for stable Dancing Arm, resulting in high quality winding. 3 LED's are provided for all kinds of diagnostic Indications. Protections are provided for short circuit, over load, under and over voltages.

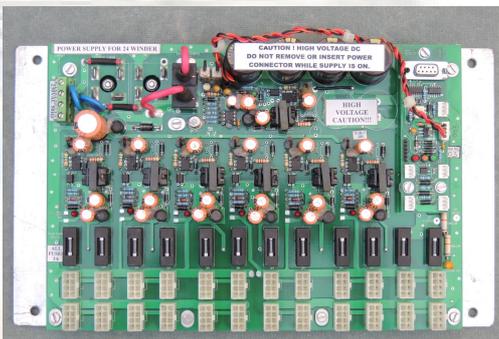
Winder motor stops automatically on Tape breakage. It has facility for indication of Doff maturity as per the Set Bobbin length.



Analog sensor

#### ● Analog Sensor

State of the art Analog sensor for sensing dancing arm position with LED indications for easy setting.



24x Power supply

#### ● 24x Power Supply with 485 Distributor

This card supplies power supply to 24 winders of a frame. Separate power supply makes winder system very easy for maintenance. 3 phase supply input makes low ripple DC voltage and 3 phase load balancing is also achieved. The 485 Distributor PCB receives line speed data from synchronizer and distributes this data to 24 winders in one frame.



Synchronizer

#### ● Line Speed Synchronizer

With high speed tape plants, line speed synchronizer plays major role for easy loading of tape on empty bobbin in electronic winder. It sends speed data to each winder individually. While tape loading, spindle rotates at speed proportional to tape plant's line speed.

**These components are used in making fixed ratio Electronic Winder**