

ROTO-GRAVURE Printing machine control by **5/7drive AC/Servo system and PLC**

Product Brief:

Controls for rotogravure printing machine are generally three / five /seven motor drive system. Three motor drive systems is the bare minimum requirement and are generally supplied on low end machine. Five motor drive systems are used on high speed machines. In addition to the controls provided by three motor drive system, additional **in feed** and **out feed** nip controls are provided. For precise tension controls dancers are provided in the in feed and out feed zone. These dancers are fitted with special friction free pneumatic cylinders and a linear transducer to sense the actual position of the dancer. All the five motors of the system are synchronized through plc and dedicated drive synchronizing software developed by waveform controls. Along with the drive controls, other electrical and electronic controls of the machine like the blower controls, heating controls, pneumatic controls are also taken care of in the panel supplied. Machine specific designs are made to ensure operator convenience. System also consists of remote control panels fitted on the machine at different locations for ease of operation. Seven motor drive systems incorporate additional rewind and unwind drives for machines fitted with turret on both ends. For automatic splicing at running speeds, waveform controls has developed plc based controls which ensure auto splicing and reel changeover at high speeds.

Panels consist of:

1. 3ph, 10H.P. AC drive for main motor
2. AC drives for winder and unwinder.
3. Encoder Card
4. Length counter.
5. MPM meter.

Features:

- Winding and unwinding balanced shafts from en 31.
- Complete enclosed gear box system to be provided with ms link shifter for doctor blade movement's main link drive.
- Hard steel with cones and locknuts assembly.
- Dynamic balanced drive rollers with wrinkle free grooves, (balance weights to be inside type).
- Lockouts with pneumatic control
- Doctor blade shaft made in ms and the doctor blade movement 10 to 12 mm only.

