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# 6 Colour CI Flexo Press

## 36" Delux Model



**Priemeium Machine** - Fully mechanical systems backed by most advanced electronic controles and drives.  
Easy operation with maximum operators luxury  
Ideal for maximum production with high quality out put.

### **Perfect maintainance of acuracy of colour registration**

The main advantage of CI Flexo machine is the capability to keep accurate register of diffrent plates (colours) irrespective of the variation in web tension or speed of the machine. The substrate is plugged to the main Central Impression

drum by a nip roller and all the impressions are put on the same drum. This isolate the unwinding web tension from the rest of operation of printing. Wrapping of the substrate around the curved surface of the Central Impression drum completely eliminate the chance for wrinkles in extreme thin substrate. The meshing of every Plate Drum Gears to the Main Drum Gear directly with out any intermediate eliminates the chance of back-clash and possible register variation. Even if the web tension, in unwinding or re winding parts, are varied the accurate register of printing colours maintained unchanged.

### **Speedy quering system**

The highly conductive Central Impression drum enable the application of enormous heat directly to the substrates with out harm. This evaporate the solvent instantly and the speedy quering of the print enabled. This factor increas the speed of printing machine and high out put is assured.

### **Air cooled Stainless Steel Central Drum**

Main Central Drum is the heart of the CI Flexo machine. The Drum is prepared from high quality Stainless Steel. Adequately protected by its basic structure. Heavy duty steel structure and dynamic balancing of Centrla Drum & Main Gear make the system move haslessly and vibration free. The cooling system built in the Drum keep it adequatly cooled.

### **Nylon mesh gear protuct the Main Central Gear from wear & tire**

The gears meshing with the Main Central Gear are made of Nylon to protuct the Main Gear from ware & tire assuering trouble free function and very long life.

### **Easy mounting of Plate Drums**

The mounting system of Plate Drums are designed from the point of view of operater. Quick change of Plate Drum is assured with out help of any tools.

### **Easy Mounting of Anilox Rollers**

In CI Flexo machines the change of Anilox Rollers are invariable depending on the design properties. Freequent cleaning also is necessary to keep the quality of jobs. So the mounting of Anilox Rollers are designed for easy operation handling of Anilox Rollers.

### **Perfect Chambered Blade System**

Chambered Blade System for ink supply to Anilox Rollers assure uniform and consistent application of ink on to the Anilox Roller and thereby perfect impression is

obtained. The careful angle setting guarantees the long life for the Doctor-Blade and anilox Roller as well as the optimum level of ink supply. Our Chambered Blade System is designed to keep up international standards in application.

### **Innovative Ink Tank**

Our R&D department came up with a unique Ink Tank which is attached to the Chambered Blade System. It helps very easy handling of ink. Enclosed Ink Tank and Chambered Blade System minimise the use of solvent for the ink and keeping consistency in viscosity and colour. It reduces the solvent consumption to 1/3 when compared to open tray ink application.

### **Safety-Chuck for roll loading**

The application of Safety-Chuck system to unwinding and rewinding system enables smooth tool free work for roll changing. The roll changing operation is reduced to less than three minutes by the use of innovative Safety-Chuck system.

### **Carefree Auto Web alignment**

The use of Hydro-Pneumatic Automatic Web Aligner makes the feeding system trouble free in operation of web management. Initial wastage of materials on roll changing is completely eliminated. Quick roll changing system.

The use of Safety-Chuck system and spare feeding shaft enables the feeding system trouble free and quick. The roll changing time is considerably reduced to less than three minutes. The production is enhanced considerably.

### **User friendly Control Panel**

Control Panel is the main tool of operator and so the control panel is designed from the operator's point of view. Necessary motor drive controls, temperature controls, speed controls, etc. are properly arranged. Necessary switches and pilot-lamps are provided for trouble free operation. Necessary digital displays are provided for easy status finding.

### **Compact Design**

The total machine is compactly designed for minimum space and optimum performance.

## **Silent Operation**

Careful employment of nylon gears make the gear system silent and smooth without compromising any quality of the machine in operation or output. It assures long durability and minimum wear. Minimised use of gears in in-feeding and out-feeding systems reduces the chances for sound.

The use of double suction silent blowers for quering system also contribute to the silent operation of the machine

## **Ceramic Heating System**

The use of ceramic heaters, fully insulated, enable the curing system very efficient. The radiation and convection system of heat exchange is very efficiently employed. The ample air flow ensure speedy evaporation of solvent and consistency in temperature. Digital Temperature Controls ensure accuracy of temperature through out the operation. Blowers and heaters are automatically deployed and shut down eliminating the possible neglect of operators and thereby considerable saving is achieved.

## **Protective Safety Systems**

All necessary protective systems are installed on mechanical side as well as electrical side. All the gear systems are protectively covered. Moving parts are safely installed. All necessary protective devices are installed in electrical systems. Emergency switches, emergency shut down etc. Are provided in different parts of the machine.

## **Substrate Reversing System**

By the use of this system the substrate is carried from printing unit after 3rd printing station to a cross bar system where the substrate is tilted to reverse side. Then it is guided back to the 4th printing unit and the rest printing units print on the other side. Thus both sides can be printed simultaneously, both side three colours each

## General Specifications [\(Back\)](#)

1	Web Width	900 mm (36")
2	Number of printing units	Six
3	Printing method	Central Impression Flexographic system
4	Unwinding	Shaft unwinding with Safty-Chuck System
5	Rewinding	Shaft unwinding with Safty-Chuck System
6	Drive	Synchronized two drive system
7	Quering of print	Hot air blow system  1. Around the main Central Impression drum.  2. Inside the over head quering chamber
8	Automatic Web alaigner	Pneumo-Hydraulic
9	Automatic Tension Controle	Electronic Load Cell Controled

## Electrical Specifications [\(Back\)](#)

1	Main Drive	7.5 HP 3 phase motor with VFD controle	1 No.	5.000 KW
2	Rewinder Drive	3 HP 3 phase motor with VFD controle	1 No.	2.250 KW
3	Blowers	0.6 HP double suction centrifugal blower	3 Nos.	1.350 KW
4	Web Alaigner Drive	1 HP 3 phase motor	1 No.	0.750 KW
6	Air Heaters	1 KW	16 Nos.	16.000 KW
7	Flourecent TubeLights	40 W each	3 Nos.	0.120 KW
8	LED Lights	7 W each	6 Nos.	0.042 KW

## Diamentions [\(Back\)](#)

Diamentions are approximate. May require more space for comfertable use of machine

1	Length	8 Meters
2	Breadth	3 Meters
3	Machine Hight	3 Meters

## **Standard Accessories** [\(Back\)](#)

1 Chrom Anilox Rollers 300 LPI	6 Nos.
2 Plate Rollers - Print length – 5 sets	30 Nos.
3 Unwinding shaft with 2 cone & 1 Core Jack	1 Set.
4 Rewinding shaft with 2 cone & 1 Core Jack	1 Set.
5 Standard tools	1 Set.

## **Optional Attachments** [\(Back\)](#)

1. Ceramic Anilox Rollers
1. Automatic Colour Registration Controle
2. Web Viewing System