

# SWING



# Swing Cylinder Press

## HIGH SPEED ECONOMICAL SOLUTION

### WITH IMPROVED FEATURES

**NEW:** STICKY ROLLER WITH ANTI-STATIC SYSTEM

**NEW:** STACK THE SHEET WHILE PRINTING

**NEW:** SIDE LAY SENSORS

All these new features have been incorporated keeping in mind full production output from all Grafica's fully automatic screen printing systems.



  
**GRAFICA**  
FLEXTRONICA

# Swing Cylinder Press

**SWING**

## HIGH SPEED ECONOMICAL SOLUTION

The machine offers speed and cost effective solution and are designed to remain sturdy even at full speeds thus maintaining higher standards for more durability. It is manufactured under strict quality control by our highly experience team. The parts of these machines are made with sophisticated CNC equipments to achieve highest accuracy and reliability.

In SWING CYLINDER principle the cylinder rotates in reverse forward direction. After the substrate registers (front and side lay) cylinder rotates in forward direction and printing takes place. There after the cylinder rotates in

reverse direction to pick up the next substrate simultaneously screen returns at front position and flood coater moves down flooding the ink all over the screen. The timing of the cylinder and substrate movement are perfectly synchronized to maintain highest registration accuracy even at the full speed.

Cylinder press also allows to maintain minimum off-contact and lower squeegee pressure thus reduces print distortion. Digital speed indicator helps operator to maintain perfect printing speed throughout the print run.



### Operating Control Panel:

Easy & user friendly control panel with speed regulator driven with frequency inverter and a digital indicator helps operator to set the desired speed accurately.



### Cross Over Stand:

Helps to feed printed stock to any type of dryers. To prevent damages of hard and heavy stocks at its lead edge and delivers accurate registration. Useful and easy access on both sides of machines, thus saves operators time.



### Cylinder:

The top of the cylinder is made of high quality stainless steel which increases the life of cylinder and designed using high pressure vacuum system to ensure perfect registration.





#### Registration System:

The side lay is designed with bearing for smooth movement of paper with adjustable pressure as required according to paper thickness and stiffness.

#### New: Side lay sensors

New side lay sensor on all its Swing Cylinder Press to avoid miss-registration which further reduces rejection.



#### Screen Frame Movement:

High quality rails from THK, Japan is used for precise vibration free movement of screen frame assembly and delivers stable printing results.



#### Squeegee & Flood:

The squeegee and the flood operates smoothly. A perfect balance ensures proper pressure all over the screen and delivers accurate registration on each prints.



#### Screen Frame Locking:

A toggle clamp provided to lock the screen frame and fine thread screws provided for three point movement of screen for perfect registration.



#### Feeder:

The feeder is designed using varieties of papers and plastics to ensure accurate feeding and to avoid multiple paper lifting. Depending on the substrates the feeder can be set to single sheet mode of overlapping mode.

#### New: Stack the sheet while printing

Double board feeding system further improves the productivity thus reduces downtime while stacking the material.



#### New: Sticky Roller with Anti-Static System

Dust particles settled on substrates, drastically reduces the printing speed especially when printing on plastics or foil laminated substrate. This new improved feeder offers customer a better solution to improve productivity on such high speed machines.



#### Delivery:

The delivery conveyor belt can be lowered down completely to for easy access on both sides thus help to clean the screen from the bottom.

## Standard Features:

- User friendly control panel
- Frequency Inverter for speed control with digital indicator
- Automatic stream feeder
- Rear pick-up feeder
- Continuous overlapped sheeting or single sheet mode
- Delivery conveyor up/down movement for easy access
- Synchronized sheet transfer from delivery to dryer (only on GRAFICA make dryers)
- Pull type side lay with bearing
- Adjustable side lay position (both sides)
- Sheet detector sensor
- Double Sheet detector
- Stainless steel cylinder with powerful vacuum and blow back system
- Individual spring loaded gripper on cylinder
- Individual squeegee and flood pressure
- Adjustable squeegee angle
- Motorized squeegee/flood head up/down movement synchronized
- Fine threading screw with three point registration
- Pump for central lubrication
- Complete microprocessor based controller (Mitsubishi, Japan)
- Electrical controls from Schneider Electric, France
- High quality guide rails for screen movement of THK, Japan
- Cross-over belt

## Technical Data

Description	Model: GF-2030 SWCP	Model: GF-3040 SWCP
Print Area - Max	20" x 30" (508 x 762 mm)	28" x 40" (710 x 1020 mm)
Sheet Size - Max	22" x 31" (559 x 780 mm)	29" x 40" (740 x 1020 mm)
Sheet Size - Min	12" x 14" (305 x 350 mm)	15" x 22" (381 x 559 mm)
Sheet Thickness - g/m <sup>2</sup>	110 ~ 350 (Depends on Flexibility)	110 ~ 350 (Depends on Flexibility)
Frame Size	37" x 37" (940 x 940 mm)	45" x 50" (1140 x 1280 mm)
Printing Speed	3000 / Imp / Hr / Max	2500 / Imp / Hr / Max
Total Power	8.50 kW	10.50 kW
Servo Stabilized Power Supply	440 Volts AC / 3 Phase / 50 Hz / 25 Amps	440 Volts AC / 3 Phase / 50 Hz / 32 Amps
Weight - Approx	4000 Kg	4700 Kg
Dimension (L x W x H) mm	3760 x 1960 x 1370	4500 x 2600 x 1370

Technical data subject to change without notice

\* For auto registration substrate should be cut on guillotine machine & perfectly right angle.

Cycle speed per hour (cph) subject to machine speed without feeding

\*\* For plastic material static elimination device is to be provided by customer

Wicket Dryer and stacker shown on the inside page is not a part of the standard machine

Air Compressor, Servo Stabilizer, Squeegee Rubber, Screen Frame, Inks and other consumable are not supplied with the standard machine

Servo stabilized power supply is essential to protect all electronics & electrical parts

**CREATIVE SAMPLES WITH MULTIPLE SPECIAL EFFECTS 100% SCREEN PRINTED LIVE AT VARIOUS DMI WORKSHOPS**



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