



SPECIFICATIONS

Kaizenkap rotogravure printing machine

Summary

A. CONSISTING OF

- | | |
|-------------------------|-----------|
| 1. Turret Unwinder | : 1 set |
| 2. Infeed Unit | : 1 set |
| 3. Printing Unit | : 10 sets |
| 4. Outfeed Unit | : 1 set |
| 5. Turret Rewinder | : 1 set |
| 6. Main Control Cabinet | : 1 set |
| 7. Driving Unit | : 1 set |
| 8. Side (Auto) Control | : 9 sets |

B. MAJOR FEATURES

1. Number Of Colors: 10 Colors
2. Kinds Of Web
 - a) PET Film (8 – 50 micron)
 - b) OPP (15 – 60 micron)
 - c) PEARL BOPP (10 – 50 micron)
 - d) PA (10 –50 micron)
 - e) PAPER (10–20 micron)
3. Guide Roll Width: 1300 mm
4. Printing Width: 700 – 1250 mm (long con : 700 – 1000mm)
5. Machine Speed: 25 – 300 m/min
6. Working Speed: Max. 280 m/min (Film working)
7. Winding Diameter: UNWINDER Max. ø800 mm
REWINDER Max. ø800 mm
8. Source Of Electricity: 380V, 50Hz, 3PH
9. Dryer Source: Electricity

GENERAL DESCRIPTIONS

A.TURRET UNWINDER

- 1.Construction : Double armed turret type, Unwinder pre driving and Auto Splicing
- 2.Tension Control: Tension can be controlled by A.C motor with a detector automatically
- AC Motor : 5.5 Kw (SEIMENS)
- 3.Arm Turreting Motor : Geared motor, 0.75 Kw x 4P x 1/30, attached brake type
- 4.Core : Paper core (Inner diameter : 75mm Adaptor152 mm)
- 5.Paper Core Setting : A combined shaftless pneumatic clamping and airfix shaft clamping
- 6.Unwinding Diameter : Max. ø800 mm
- 7.Side-Lay of web: By manual handle operation adjustable distance ±20 mm
- 8.Auto Splicing : Arm and cutter for the unwinder's Auto splicing,
air cylinder's continuous acting type is operated by push button

B.INFEEDING UNIT

- 1.Construction : 2 Roll press type, Dancer type tension detector is attached. Depending on the detected
- tension change the A.C motor drives the steel roller.
- 2.Roll Press: By use of air cylinder press controller that is possible to
- 3.Roller Size
 - a)Steel Roller : ø190 x 1300 mm, Hard Cr
 - b)Rubber Roller: ø160 x 1300 mm, N.R. Hardness 70°- 75°
- 4.Steel Roller Diving: Driving by A.C motor, depending on line speed and tension's change, the steel roll is
Interlock controlled.

A.C MOTOR : 4 kw, (SEIMENS)

5.Tension Control: Dancer type (BELLOFRAM C/Y)

C.PRINTING UNIT

1.Consisting of: Printing cylinder, Impression roll, Doctor knife, Compensating roll, Unit dryer, Cooling unit, Ink pan, Driving device and Guide roll.

*Use all-in-one type Printing frame with 80

*It doesn't have wobble

2.Printing Cylinder

a)Cylinder Circumference: 420mm - 920mm

b)Cylinder Web Size: 700 - 1250 mm (700-950 mm : long Cone)

c)Cylinder Shaft's Power Transmission : The cylinder shaft's power is transmitted by the clutch lever through unit gear box from main shaft.

d)Cylinder Setting: Shaftless type by air cylinder

e)SIDE LAY Device: Side lay device is attached the operation part by manual handle operation. (left, right adjusting : $\pm 150\text{m/m}$)

3.IMPRESSION ROLL

a)Roller Press: The free printing pressure is given by the air cylinder, left, right different pressure adjusting device.

b)Air Cylinder : $\varnothing 80 \times 125$ st (END ROCK)

c)Impression Roll Size : $\varnothing 160$, Rubber, $75^\circ - 80^\circ$

d)Rubber roll shaft : Rubber roll shaft's both edges are bearing set up type.

4.DOCTOR KNIFE DEVICE

a)Construction : The doctor knife's position and degree is manually adjusted according to the printing cylinder size, and is connected to the oscillation device.

* Pollution and doctor line occur very seldom

b)Knife Press : The regulator is attached as to control the free pressure by use of the air cylinder.

c)Knife Holder : Made of Aluminum, (left, right feeding stroke
: $\pm 10 \text{ m/m}$)

d)Blower : Sirocco fan, 0.2 Kw/Unit

5.COMPENSATING ROLL (REGISTER CONTROL DEVICE)

a)Side Lay : Printing cylinder side lay feeding type, manually operated.

b)Longitudinal : The vertical moving type compensating roller is attached to the printing inlet part operated by register motor..

c)Automatic Register(Color) Controller

(1)Model: MARK-PRO 5000

(2)Maker: KOREA

(3)Consisting of

(a)Control Cabinet : 1 set (9 Channel)

(b)Scanning Head : 9 sets

(c)Pulse Generator : 1 set

(d)Reflecting Plate : 9 sets (Stepping motor)- Up & Down

- (e) Touch Monitor : 1 set
- (f) Reflecting Plate : 9 sets

*Panel attachment

*More wide working area

- *Camera screen : 43 inch large screen
- *Color controller : digital type

6. UNIT DRYER

- a) Construction : The drying chamber is installed to each printing unit and the exchanged hot air is sprayed to

the web by the blower through the nozzle.

b) Steam Heat Exchanger

- (1) Capacity : Electricity
- (2) Temperature Adjustment : Automatic control depends on the setting temperature. (Max. 100°C) Accuracy of temperature $\pm 2^\circ\text{C}$.

(3) Blower

- (a) Type : Turbo fan
- (b) Size : 50 m³/min, 220 mmAq, 3.7 kw (1st - 10th) INVERTER TYPE (Air quantity can be controlled by the volume.)

- (4) Chamber : Quick return type, open-and close by the air cylinder.

c) COOLING UNIT

- (1) Construction : Air, cooling box and water cooling roll provided.
- (2) Cooling Box : Sprayed air by the blower through nozzle
- (3) Cooling Roller : Water cooling type, valve attached
- (Size : $\varnothing 150 \times 1300$ mm, Al Surface hardened)

d) INK PAN

- (1) Construction : The ink pan installed under the printing cylinder operated
- (2) Pan : Aluminum, the valve is attached under the pan.

e) Driving Device

- (1) Oil deeping gear box is installed to the each printing unit and oil gear deeping driven by main motor.
- (2) Gears are grounded and hardened, supplied gear oil.
- (3) Main Driving Motor : AC Motor 30 Kw
- (4) Gear box : Shaftless type.

f) Guide Roller

- (1) Material : Aluminum pipe
- (2) Size
- (a) General Guide Roller: $\varnothing 120 \times 1300$ mm
- (b) Roller of Inside Chamber : $\varnothing 80 \times 1300$ mm and $\varnothing 100 \times 1300$ mm

D. OUTFEEDING UNIT

- 1. Construction : 2 Roll press type, Dancer type tension detector is attached. Depending on the detected tension change the A.C motor drives the steel roller.
- 2. Roll Press : By use of air cylinder press controller that is possible to
- 3. Roller Size
- a) Steel Roller : $\varnothing 190 \times 1300$ mm, Hard Cr

- b)Rubber Roller : $\varnothing 160 \times 1300$ mm, N.R. Hardness 70°- 75°
- 4.Steel Roller Diving : Driving by A.C motor, depending on line speed and tension's change, the steelroll is interlock controlled.
- A.C MOTOR : 4 kw,
- 5.Tension Control : Dancer type (BELLOFRAM C/Y)
- 6.Inspection Screen Device : Lamp is attached in the arch box.

E.TURRET REWINDER

- 1.Construction : Double armed turret type, Rewinder pre driving and Auto Splicing
- 2.Tension Control : Tension can be controlled by A.C motor with a detector automatically
- 3.AC Motor : 7.5 kw (SEIMENS)
- 4.Rewinding Diameter : Max. $\varnothing 800$ mm
- 5.Arm Turreting Motor : Geared motor, 0.75 Kw x 4P x 1/30, attached brake type
- 6.Core : Paper core (Inner diameter : $\varnothing 75 - \varnothing 76$)
- 7.Paper Core Setting : A combined shaftless pneumatic clamping and airfix shaft clamping
- 8.Side-Lay of web : By manual handle operation adjustable distance ± 20 mm
- 9.Auto Splicing : Arm and cutter for the rewriter's Auto splicing, air cylinder's continuous acting type is operated by push button

F.CONTROL

- 1.The circuits are connected from main control cabinet to unit operating panel.
- 2.Breaker and magnetic switch as each unit's capacity are installed.
- 3.Cabinet : SS400, 2t
- 4.Motor Controller: Digital

Option Parts

- A.Exhaust Fan : 2 set
- B.Air Compressor : 1 set

Standard Accessories

- A.Portable Ladder : 1 set
- B.Damp proof Lamp : 10 sets
- C.Static eliminating brush : 20 pcs

Out of Scope

- A.Printing cylinders
- B.Foundation works and materials
- C.Exhaust duct works and materials with blowers
- D.Utility inlet and outlet (electric wire, cooling water, compressed air, steam etc)
- E.Exhaust gas treatment device
- F.Raw materials for the test operation
- G.Items not specified in this specification
- H.Boiler and piping between Boiler to blower.

Remarks

- A. Specifications are subject to change occasionally for improvement.
- B. Allowable fluctuation of the primary voltage is with in $\pm 5\%$
- C. Painting colors of the machine comply with buyer's request.
- D. In order to installation and test, Engineer could be dispatched in accordance with the buyer's request.
- E. In this case, Engineers daily allowance, round air ticket, hotel, local traffics and meals are buyer's account.

Warranty

- We guarantee 12months after the installation in the buyer's factory.
- We are not responsible for the damage caused by misuse, improper handling and neglectful maintenance.



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