

Fast & Accurate  
Economical  
Better for  
Your Business



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## COMPANY PROFILE



We ANGEL MECHTRONIK are glad to introduce as one of the leading manufacture of Textile Machineries, Spares of Rotary Screen Printing and all types of mechanical manufacturing. We are into this field since three and half decades and are having good reputation in domestic market. Our clients constitutes leading textile companies, reputed textile machineries and spares dealers And also few military and government agencies who use our spare in their facilities.

We have three production facilities in ahmedabad with total area of 1500 sq. yards available for production. We have a total staff of 35 constitution skilled and semi-skilled who have vast experience and expertise in this field.

## QUALITY

The company adheres to stringent quality norms for all the processes.

The material used by the company are of very high quality and compatible to the latest machinery and production process.

A team supervises the quality assurance and control aspects along the entire process system by identifying and associating with the quality circles.

Quality control tests are conducted regularly to maintain a uniform product quality.

## RESEARCH AND DEVELOPMENT

New development is done in our R & D department. Accurate check up of all raw materials / spares by our Quality Control Department under the guidance of our technical partner.

Adopting the latest technology to meet the international standards and norms.

Developed Jig Fixtures which gives precision work within 5 to 20 microns.

### ANGEL MECHTRONIK

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## ENGRAVING PLANT EQUIPMENT

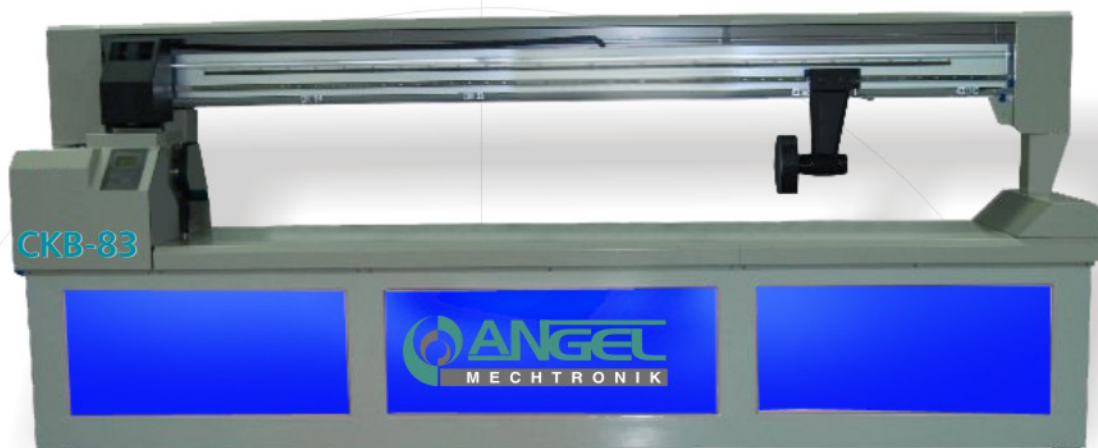


- Angle history is significant to understand today's reality, values and targets.
- It is applied in one cycle of operation from top to bottom (immersion effect) CKB-69 guarantees uniform layer of emulsion on the screen, because of its sturdy vibration-proof frame structure.
- The built in two motor helps reduce downtime of coating subsequent screens to a minimum.
- Cones and emulsion reservoir made of light weight aluminum alloy ensuring minimum wear to the working parts. Coating squeegee are made of water resistant top Quality rubber ensuring smooth and even emulsion layer on to screen
- Automatically height adjustment systems for reused screen.
- Spares for repeat changing components are available from Angel. 640 mm to 1018 mm Repeat.
- Complete Electrical Panel with PLC logic inverter.
- Single button operated system for all operation.
- Alarm system when finish coating.
- Top & Bottom head sliding on linear rail motion system (Made in Taiwan ) for long life.
- Top & Bottom head traveling by Wire rope for smooth & maintenance free life.
- Variable Coating speed & Universal Reserve wire system for equal coating & coating thickness.
- Double squeegee system for fast & better coating for Inkjet & Laser Engraving.
- Very easy manually cone locking system with cone locking sensor.
- 220 V ( Single Phase ) Connection. ( No required Three phase 440 V, & Pneumatic line ).

CKB-69 AUTOMATIC COATING MACHINE

**ANGEL make 640 mm to 1680 mm Repeat  
1850 mm to 4800 mm Length**

## ENGRAVING PLANT EQUIPMENT



The ANGEL CKB-83 Rotary Screen Engraver is the fastest & quality rotary screen engraver. With the world class best Epson 8 nozzle print head. And supported with the best precision transmission spares. The ANGEL CKB-83 Engraver achieves unequalled speed while maintaining an exceptional print quality. ANGEL CKB-83 inkjet machine is a digital system machine it prints direct on coated nickel screen with special ink and cures the resin with UV light. With slandered & quality spares as sensor, servo motor, sliding rail, belt, with heavy fabricated structure.

The ANGEL CKB-83 Inkjet Rotary Screen Engraver is available in the 2 meter, 2.5 meter & 3.5 meters, 4 meter and as per your requirement we provide four type repeat screen circumference. (640, 820, 914 & 1018mm Repeat). Compare to old version machine save film, man power, maintenance time.

| Model               | CKB-2000                                | CKB-2500 | CKB-3000 | CKB-3500 | CKB-4000 |
|---------------------|---|----------|----------|----------|----------|
| Screen Repeat size  | 640,820,914,1018mm Repeat.              |          |          |          |          |
| Resolution          | 360 DPI / 72 DPI / 1440 DPI             |          |          |          |          |
| Repeat accuracy     | 0.02mm                                  |          |          |          |          |
| Electronic          | Servo motor, Cancer, Mother board       |          |          |          |          |
| Model Of print head | Epson A-DX5                             |          |          |          |          |
| Printing Speed      | 2.5 Min / 640 rpt. x 2000mm long screen |          |          |          |          |
| UV- exposing        | Automatic expose system (1KW/220V Bulb) |          |          |          |          |
| Computer System     | Windows XP                              |          |          |          |          |
| Room Temperature    | 20 -to- 30 C.                           |          |          |          |          |



## ENGRAVING PLANT EQUIPMENT

The Angel CKB -70 needs every demand of an engraver. The most important features are exposure time, simple operation, constant light strength & incredible precision.

Available in Automatic & Semi Automatic M/c.

- Heavy fabricated structure for smooth working and long life.
- 2000w Philips make helozan UV bulb attachment.
- 0.5 HP geared drive for screen drive.
- This machine is without main shaft and tube less.
- Standard quality bearing rail for smooth and long life.
- Toothed belt drive for lamp moving.
- Suitable electric penel with standard part.
- Required 1kg pneumatic connection.



ANGEL make 640 mm to 1680 mm Repeat  
1850 to 4800 mm Length

CKB - 70 AUTOMATIC EXPOSING MACHINE

## ENGRAVING PLANT EQUIPMENT



- Specially fabricated structure for smooth sliding drum.
- UV bulb type heating system in both head for fast end ring fixing.
- Both side end ring fixing within 10 to 15 Second.
- Ring fixing head & screen support bracket sliding on linier motion rail system ( Made in Taiwan.)
- Electric panel box with Heater timer system.
- Machine suitable for 640 Repeat to 1018 & 1410 to 2000mm long screen.
- Very easy sliding head by rack-pinion system.
- 440 V Three Phase Connection.

Angel's horizontal endring glueing device the endrings are fixed while the screen is in horizontal position. It simplifies handling of screen, shown must clearly in the use of long screens.

The machine is universal as it can fit any in between lenght of screen. The endring holding plates are easily replacable and can be supplied for all repeats and each type of endring.

The horizontal universal endring glueing device positions the endrings so exactly that the contact surface of the endring lies exactly perpendicular to the longitudinal axis of the screen. This is of fundamental importance if a perfect and uniform printing result is to be obtained and it will positively influence the life of the screen.

**ANGEL make 640 mm to 1680 mm Repeat  
1850 mm to 4800 mm Length**



## ROTARY SPEARS



ANGEL offers a full range of endrings for rotary printing m/c. Made from special aluminum alloy, the endrings withstand corrosion due to aggressive colour pastes. ANGEL's Endrings do not cause any harmful effects to screen heads as they are precision machined and balanced. The products cover a complete ranges as they are offered in various repeats for all the printing machines existing in the world from 640 repeat to 1680 repeat for all type of m/c.

Supply over a million endrings.

Extended thread length endrings is our speciality. We supply up to 65mm thread length endrings which is found to be most suitable for cut screens. More thread lengths gives better grip and find very much suitable for longer printing runs.



### ANGEL OFFERS ENDRINGS FOR

Stork/Stormac

Buser

Zimmer

Reggiani

Ichinose

Laxmi

Harish

Swastik

Star

& any other as per sample, drawings & specification.

### REPEATS

640, 726, 820, 914, 1018, 1168, 1206, 1450, 1680.

& any other rept. as per sample, drawings & specification.

### THREADLENGTHS

Standard / Extended



## ENGRAVING PLANT EQUIPMENT

### CKB-73 CURING OVEN (SCREEN POLYMERIZER)



It cures the lacquer of the engraved screens by circulating hot air. The equipment comprising of:

Insulated chamber provided with a blower for circulating hot air.

Suitable electrical heaters are provided for obtaining temperature up to 1800 C. Thermostat is provided for setting and automatically regulating the temperature inside the chamber.

The capacity of the chamber is enough to accommodate maximum 8 screens of 640 mm repeat.

Arrangements are provided for taking in fresh air and exhausting foul air from the chamber.

- Heavy & Specially fabricated MS structure body for long life.
- Electronic panel with temperature control system.
- 2 Hp x 2800 Rpt standard blower fan for air circulation.
- Very easy door locking system.
- 6 kw heater for temperature control inside in box. ( Up to 250 degree)
- 440 V ( Three Phase ) Connection.



## ENGRAVING PLANT EQUIPMENT

Climatizer is a drying chamber that helps dry the lacquer just enough whilst maintaining humidity and preventing the overdrying, burning and non-uniformities in drying of lacquer.

This machine evenly dries the coated screens just enough for exposing/engraving maintaining air moisture. The chamber has been designed to maintain uniform air velocity and temperature parameters so that screens don't have to be turned over at intervals. Moreover it is equipped with filters that recirculate the clean air in the chamber that saves on power and also keeps screens free of atmospheric particulate matter.

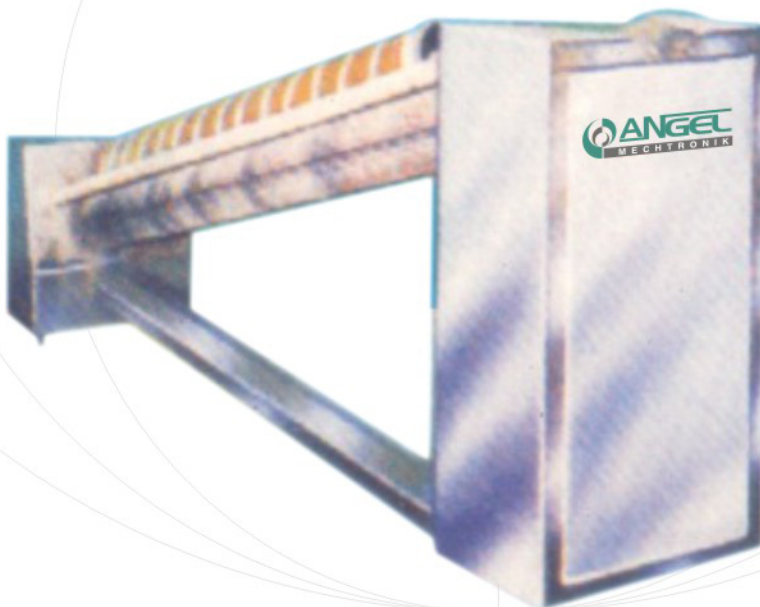
Climatizer is equipped with heaters, humidifier and filter to keep dust-free air recirculating in the chamber thus drying the screens just enough for exposing. The standard machine has a capacity to accommodate 8 screens of 640 mm repeat.

- Heavy & Specially fabricated wooden body for long life.
- Electronic panel with temperature control system.
- 2 Hp x 2800 Rpt standard blower fan for air circulation.
- Very easy door locking system.
- 2 kw heater & 1 ton capacity air conditioner for temperature control inside in box.
- 440 V ( Three Phase ) Connection.



CKB-72 LACQUER DRYING - CLIMATIZER

## ROTARY PLANT EQUIPMENT



ANGEL heavy duty types, Single, Double and Triple screen cleaning systems are equipped with nozzle configurations which effectively clean the inside and outside of the screens. Each screen is supported by two brushes running at different speeds. This results in the screens to rotate during the cleaning process.

**ANGEL make 640 mm to 1680 mm Repeat  
1850 mm to 4800 mm Length**





Retouching Stand: For Inspection and retouching of the engraved screen. Made from heavy pipe structure. Tube light housed in specially profiled M.S. pipe structure with clear transparent acrylic tube. Front wooden table with stand complete.

- Stand body fabricated by Ms square pipe structure for long life.
- Joint less acrylic tube for good performance.
- Easy operated system.

ANGEL make 1850 mm to 4800 mm Length



## ENGRAVING PLANT EQUIPMENT



Procures screens from a cascaded screens roll without dents and defects caused otherwise due to manual removal.

The semi circular trough is fabricated from Stainless steel sheets and is divided in to two section. For each section a Hinge is provided which can be set at different lever as per requirement. The screen un packing trough is mounted on a table. The pressure from the trough's lever is just enough to remove screens with ease without damaging/denting.

- Stand body fabricated by SS 304 sheet & Ms structure for long life.
- Easy operated system.

**ANGEL make 640 mm to 1680 mm Repeat  
1850 mm to 4800 mm Length**

## ENGRAVING PLANT EQUIPMENT

Degreasing tank: Made from one piece molded plastic materials complete provided with One piece rubber sheet cover. Drain cock and suitable M.S. Iron stand complete duly painted and ready for use.

Screens have to be cleaned for oil stains due to grease and dirty handling. Stain removal process is a simple process using degreasing chemical and left in the degreasing tank with aid of support devices for proper handling.



ANGEL make 640 mm to 1680 mm Repeat  
1850 mm to 4800 mm Length

CKB-76 DEGREASING STAND, TANK AND DEGREASER



## ENGRAVING PLANT EQUIPMENT

### CKB-78 STRIPPING TANK, STRIPPER



Horizontal/Vertical Stripping Tank: Stripping tanks suitable to strip Nickel perforated rotary screens in horizontal/vertical way is fabricated from Best quality polymer materials to withstand strong stripping chemicals. The whole unit of the tank is based of FRP coated legs. Suitable lids cover is provided for easy opening and closing of the tank. Drain valve is also provided complete assembled. Standard stripping tanks are suitable to strip the screens up to 3.5 Mtr Long and 640, 820, 914, 1018, 1450 and 1680 mm repeat also. They can be customised on special request.

**ANGEL make 640 mm to 1680 mm Repeat  
1850 mm to 4800 mm Length**

## ROTARY PLANT EQUIPMENT

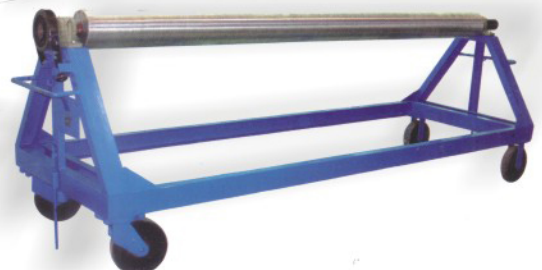
### Triangle frame Big batching trolley

- ANGEL make variable size & length in pipe and sectional design up to 4500 mm L.
- Available in hydraulic & motorised drive system.



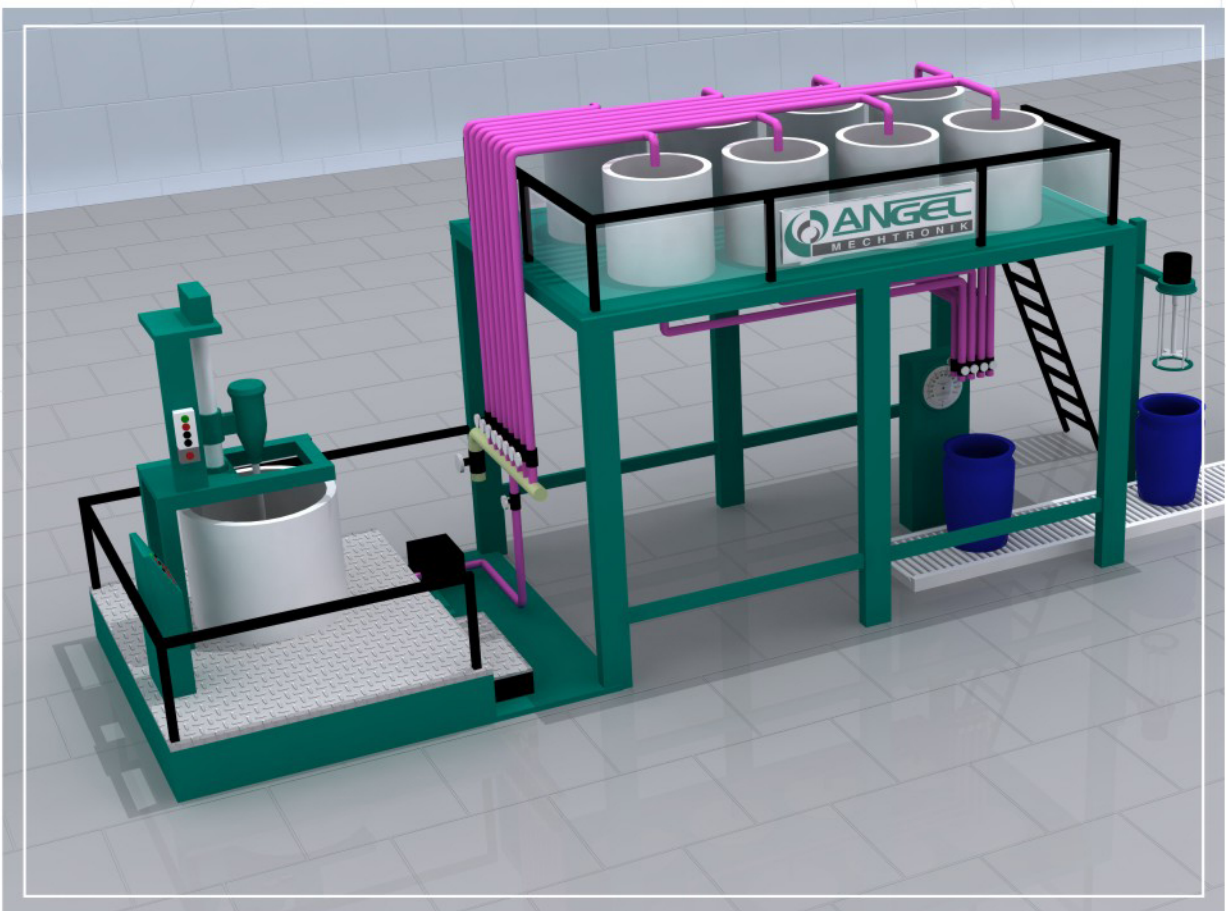
### Material Handling Box Trolley

- ANGEL make variable size, height & length in pipe and sectional design.





## COLOUR KITCHEN EQUIPKMENT





- Machine body fabricated by SS 304 quality material for long life.
- Easy operated electronic panel.
- Machine available in Two, Four & Six screen at the same time washing.
- Quick replace washing nozzle arrangement.
- 2 HP presser water pump for fast washing.
- Short process for low water wastage.
- 440 V ( Three Phase ) Connection.



## COLOR KITCHEN EQUIPMENT



ANGEL offers complete range of equipments for perfect & homogenous mixing purpose. Selection of best quality material and scientific approach gives longer life, saves on power consumption, time & helps to increase production.

- Pneumatic raising of emulsionator unit.
- Horizontal swiveling
- Helical impeller with rotation in both directions
- Deflector disc adjustable in height
- All immersed parts made completely of stainless steel.
- Electric control switchboard.





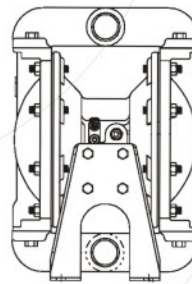
- One or two mixing heads
- Adaptable to most type of containers.
- Variable speed form 0 to 3000 RPM with display.
- Adjustable mixing time.
- Simultaneous mixing and washing phase.
- Continuous washing fed by circulation pump.
- Recycling of the water in the washing cycle.
- Electrical control panel.

## ROTARY / CHEMICAL PLANT EQUIPMENT

### DIAPHRAGM PUMP



- The Angel natural air powered diaphragm pump offers high volume delivery Even at low Air pressure.
- Natural air powered diaphragm pumps move fluids such as Crude oil, Dye chemical, Salt, Water, Lubrication oils, Glycol, Caustic liquids and acids.
- Air operated double diaphragm pump utilize a pressure differential in the air chambers to alternately create suction and a positive fluid pressure in the fluid chambers.
- Pump cycling will begin as air pressure is applied and it will continue to pump and keep up with the demand.



### PERFORMANCE

|  |                               |
|--|-------------------------------|
| Air Inlet Pressure Range .....           | 20 - 120 p.s.i. (1 - 8.3 bar) |
| Maximum Material Inlet Pressure .....    | 10 p.s.i. (0.69 bar)          |
| Fluid Pressure Range .....               | 20 - 120 p.s.i. (1 - 8.3 bar) |
| Maximum Flow Rate (flooded inlet) ....   | 35 g.p.m. (133 l.p.m.)        |
| Maximum Particle Size .....              | 1/8" dia. (3.2 mm)            |
| Maximum Temperature Limits .....         | 32 to 125 F (0 to 52 C)       |
| Displacement / Cycle @ 100 p.s.i. ....   | 0.156 gal. (0.59 lit.)        |
| Noise Level @ 70 p.s.i. - 60 c.p.m. .... | 64.5 db(A)                    |



## ROTARY / CHEMICAL PLANT EQUIPMENT

- The Angel 'Vertical Pump' functionality and performance used in textiles and refinery unit extended considerably
- Additional options allow you to increase your efficiency even further.
- Vertical air pumps move fluids such as Crude oil, Dye chemical, Salt, Water, Lubrication oils, Glycol, Caustic liquids and acids.
- Which also contributes to lower operating costs.



### PERFORMANCE

|                              |            |
|------------------------------|------------|
| Pressure Ratio .....         | 5:1        |
| Flow Rate (Litre/min) .....  | 20         |
| Working Pressure (bar) ..... | 5 - 8      |
| Working Pressure (psi) ..... | 75 - 120   |
| Air inlet (Quick Plug) ..... | 1/4"       |
| Oil Outlet .....             | M11/2" BSP |
| Suction Length (mm) .....    | 940        |
| Packing Dimension (mm) ..... | 90x90x1200 |
| Weight (Kg) .....            | 7.5        |



BARREL PUMP PNEUMATIC / HYDRAULIC

## COLOR KITCHEN EQUIPMENT

### CBK-80 VACUUM COLOR STRAINER

## with motorised lifting & tilting device

For most efficient & rapid straining of printing  
pastes & to get better & correct printing results.





- Machine fabricated with heavy structure from SS 304 body.
- Brush with drive arrangement to clean the drum at a time from inside & outside.
- Suitable Electric control panel.
- Brush roll drive with suitable motor ( 2 HP ) & gear box provided.
- Quick replace brush agreement.
- 1.5 HP Water pump with motor for water presser.
- Short process for low water wastage.

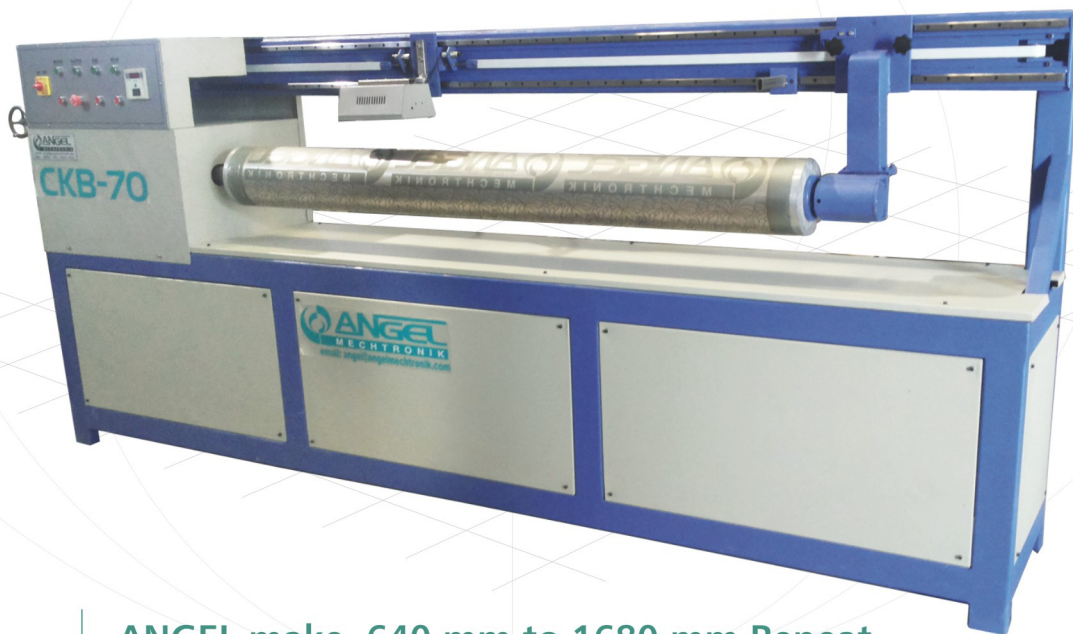


## ENGRAVING PLANT EQUIPMENT

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Available in Automatic & Semi Automatic M/c.

- Heavy fabricated structure for smooth working and long life.
- With 2000w Philips make helozan UV bulb attachment.
- .5 HP geared drive for screen drive.
- This machine is without main shaft and tube less.
- Standard quality bearing rail for smooth and long life.
- Machine suitable for 640 to 1018 Rpt screen.
- Toothed belt drive for lamp moving.
- Suitable electric penal with standard part.



**ANGEL make 640 mm to 1680 mm Repeat  
1850 to 4800 mm Length**

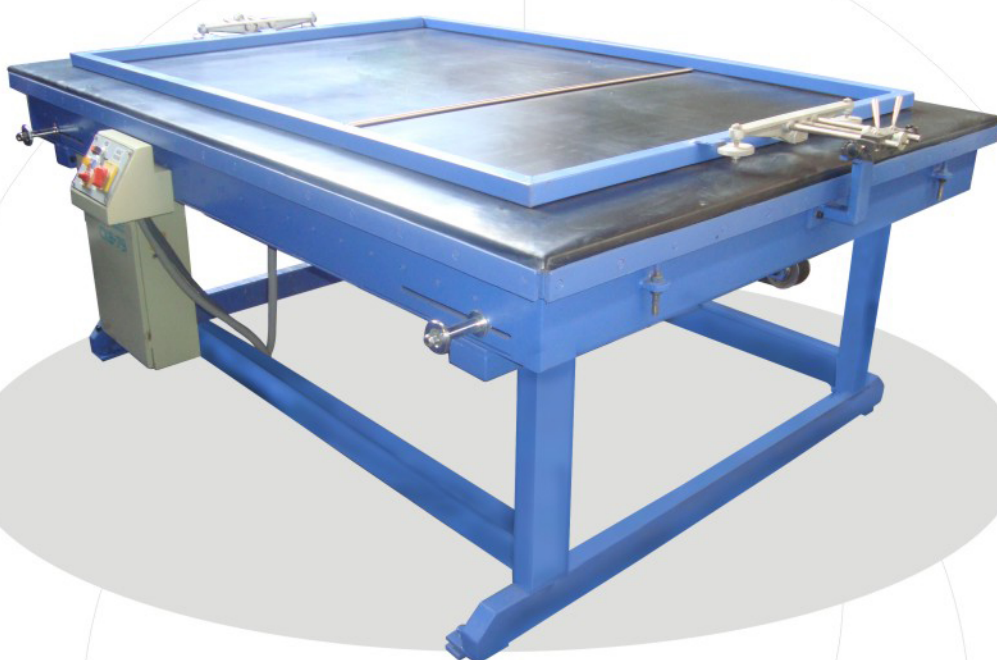
**CKB - 70 AUTOMATIC EXPOSING MACHINE**

An ISO 9001 : 2008 Certified



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- Heavy & Specially fabricated body for smooth & equal printing.
- Suitable electronic panel for make easy operation.
- One side to second side beam sliding on linear rail motion system for long life ( Made in Taiwan ).
- Standard Rotomotive make Gear box & Motor.
- New designed Electronic panel with PLC System for control magnet road sliding speed.
- Height adjustable system for printing frame & blanket.
- Changing magnet presser system in panel box.
- Very easy to changing printing frame.
- 440 V ( Three Phase ) Connection.

Different dimension specification available upon request and with price surcharge.

