



Innovation by Excellency



PROCESSING TEXTILE MACHINERY

www.angelmechtronik.com



COMPANY PROFILE

Angel Mechtronik is an Ahmedabad (India) based manufacturer and exporter of textile processing machineries like Rotary Screen Printing Machines, Engraving Plant Machinery and Colour Kitchen.

We also produce various equipments and accessories connected with all the above mentioned machines like fully automatic Rotary Screen Coating Machine, Rotary Screen Washing Machine, Automatic Coating Equipment, Automatic Exposing Equipment, Endring Fixing Equipment, Curing Oven, Lacquer Drying Equipment, Retouching Stand, Screen Unpacking Stand, Degreaser and its stand, Stripping Tank, Flatbed Sample Table, Auto Exposing Equipment, etc.

We also manufacture quality spares of Rotary Screen Printing Machines supplied by SPG, MHM, MHMS, Laxmi, Reggiani, Zimmer and Ichinose. We also undertake retrofits of Rotary Screen Printing Machines supplied by other manufacturers.

We keep adequate spares of the Rotary Screen Printing Machine, Engraving Plant Machinery and Colour Kitchen and all other equipments.

Add content about service engineers.



Registered Member of various organizations

ANGEL MECHTRONIK provides good quality solutions that allow textile machinery and spares everywhere to increase efficiency, productivity, profitability and eligibility. We offer everything from complete installations of new machinery to upgrades the existing equipments. All machines are adapted, designed and manufactured as per customer's individual requirement.

RESEARCH AND DEVELOPMENT

New development work is a constant process in our R & D department. The work of accurate check up of all raw materials / spares is assigned to our Quality Control Department under the guidance of our technical partner. Hence latest technology is adopted to meet the international standards and norms. Developed Jig Fixtures gives precision work within 5 to 20 microns.

TRADE FAIR SHOWS



Trade Fair INDIA ITME - 2012

OWN AUTOMOTIVE MACHINERY UNIT

Machine is totally dedicated to fast drilling, tapping and milling for small & medium mass production of components to achieve cut-throat cycle-time with almost nil loading/unloading time.

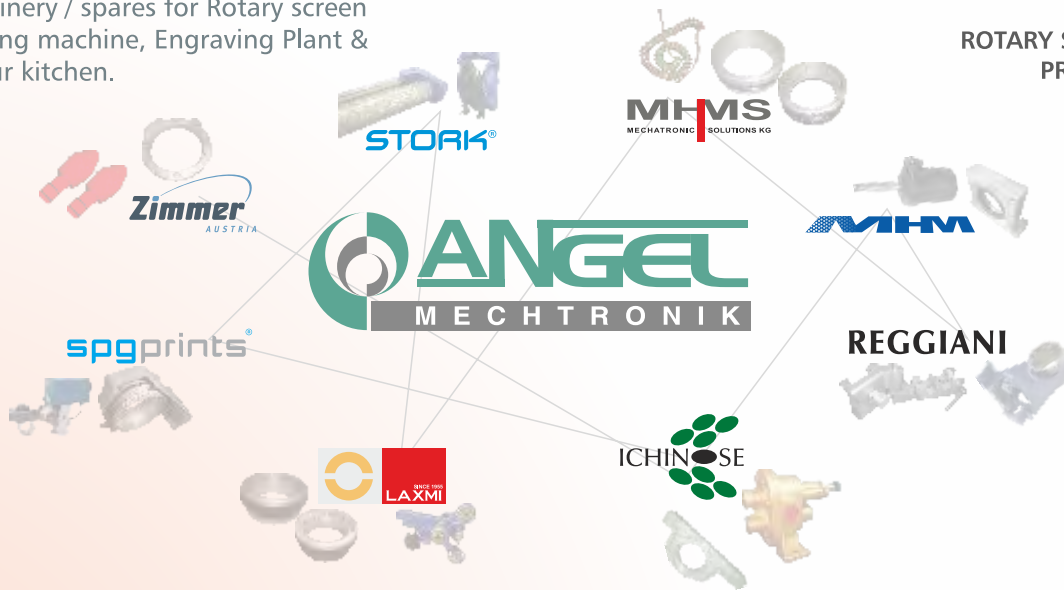


Mastercam

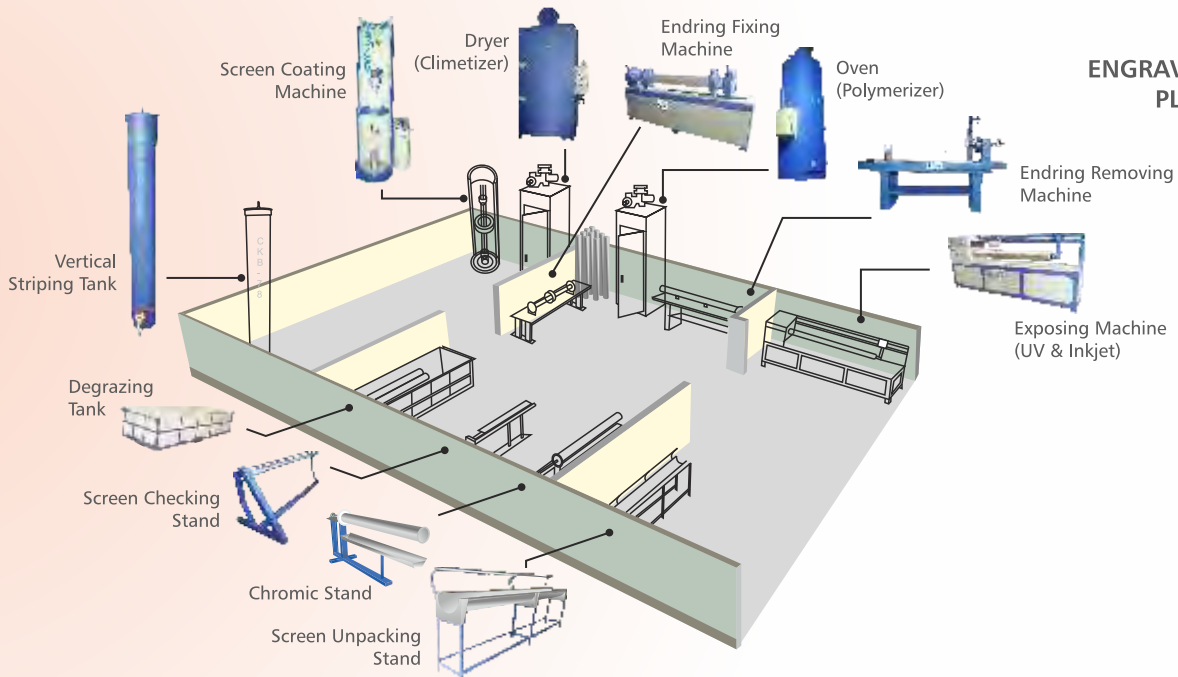
We use certified licence software in automotive machinery unit.



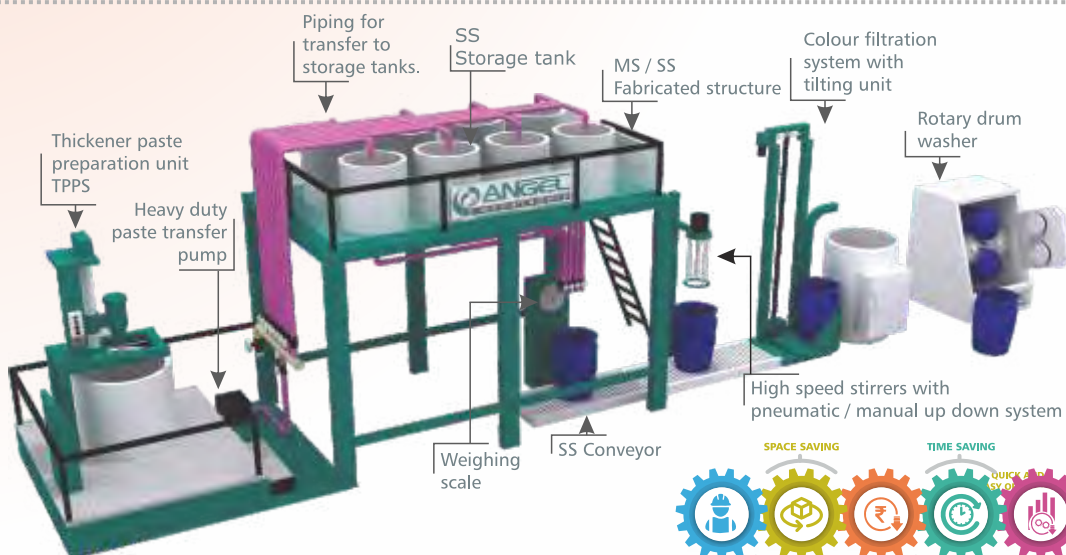
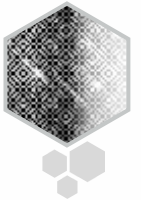
Manufacturing and developing
machinery / spares for Rotary screen
printing machine, Engraving Plant &
Colour kitchen.



**ROTARY SCREEN
PRINTING**



**ENGRAVING
PLANT**



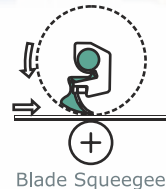
**COLOUR
KITCHEN**



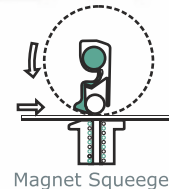
CBK-99 - ROTARY SCREEN PRINTING MACHINE



Diaphragm pump for dye-stuff



Blade Squeegee



Magnet Squeegee

Prints all fabrics from light synthetics to heavy cotton fabrics.
Choice of blade or roller squeegee system.
Energy Saving of up to 25% compared to DC drive.

CBK - 99 - Technical Specification

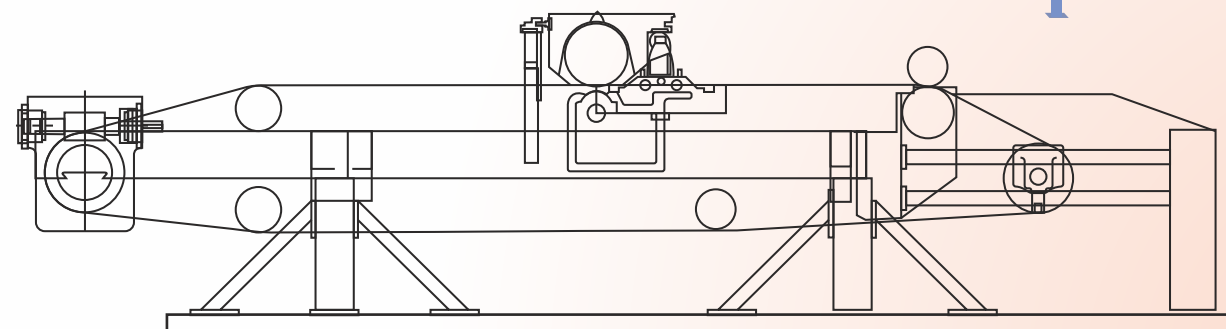
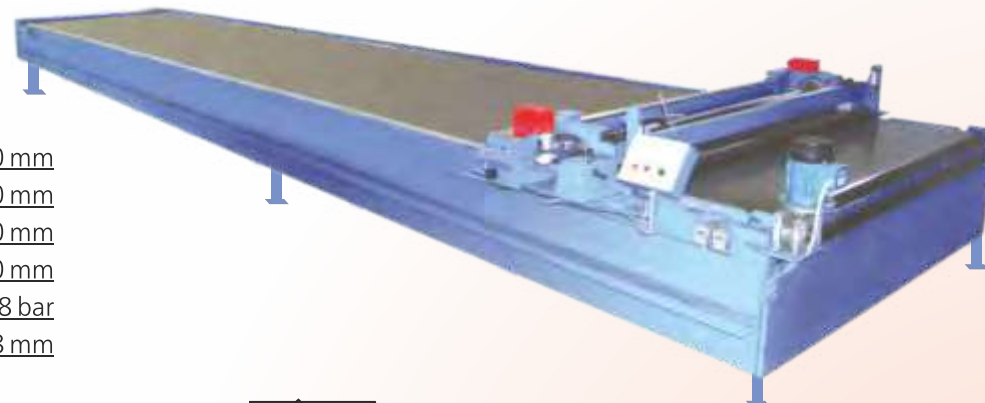
| | |
|---------------------------|---|
| Model | : CKB-99 |
| Number of colors | : Upto 16 |
| Printing width | : 1280, 1620, 1850 & more |
| Repeat Options | : 640-819-914-1018 mm |
| Speed | : Upto 80 meters per minute |
| In-feed | : Knits/Woven |
| Printing Head | : Closed bearing |
| Squeegee | : Blade and magnet |
| Screen Drive | : Common AC motor with gear box |
| Operating and colour side | : Left & Right Fixed |
| Glueing System | : Thermoplast / Continue Glueing system |
| Colour Pumps | : Pneumatic SS AODD PUMP |
| Dryer | : Oil / Gas / Steam |



CKB-86 - ROTARY SAMPLE PRINTING MACHINE

ANGEL make
5, 10, 12 Meter length

| | |
|---------------------|---------|
| Length | 7000 mm |
| Width | 2850 mm |
| Height | 850 mm |
| Printing Length | 4710 mm |
| Air Pressure in bar | 8 bar |
| Repeat upto | 1018 mm |

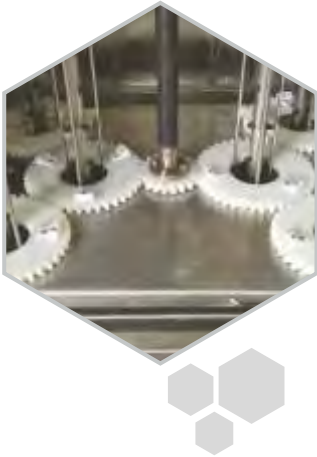


CBK-79 - FLAT SCREEN SAMPLE PRINTING TABLE (COLOUR STRIKE-OFF)



- Heavy & Specially fabricated body for smooth & equal printing.
- Suitable electronic panel for make easy operation.
- One side to second side beam sliding on liner rail motion system for long life.
- 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.

CKB-74 - ROTARY SCREEN WASHING MACHINE



ANGEL heavy duty types, **Single and Multiple 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.

- 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.
- Standard high presser water pump for fast washing.
- Short process for low water wastage.
- 440 V (Three Phase) Connection.

ANGEL make for up to 1680 repeat and 3500 mm long screen

CKB - 88 - SQUEEGEE WASHING MACHINE

- Robust Complete SS 304 structure
- Wash up to 6 squeegees at a time
- Short cycle time
- Water & Air spray system for fast & through cleaning of colour pipes.
- High pressure nozzle water spray system
- Design Save space at least 50%
- Maximum time saving.
- Waste water recycle system
- Labour saving.



ROTARY PLANT EQUIPMENT

ANGEL Providing various type of Screen / Squeegee / Material handling trolley for entire textile unit.

We make for 3500mm long screen.



Screen trolley



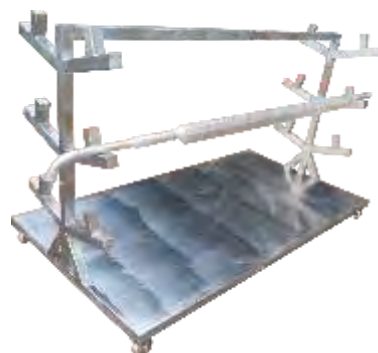
Screen trolley



Triangle frame
Big batching trolley



Material handling
box trolley



Squeegee trolley

Will prepare the trolley according to the customer's requirement.

ACCESSORIES FOR ROTARY, STENTER & ALL TYPE OF INFEED UNIT.



A. Air valve assembly LH/RH
B. Feeler lever assembly LH/RH



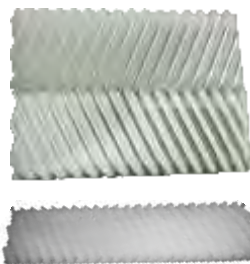
Mechanical selvage opener



Pneumatic cloth guider type



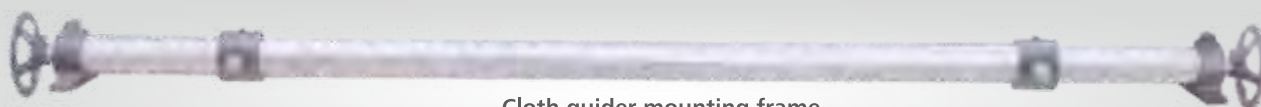
Mechanical cloth guider



Spreader plate



3 Finger / 4 finger uncurlers



Cloth guider mounting frame

CBK-69 - AUTOMATIC COATING MACHINE

AUTOMATIC
HEIGHT ADJUSTABLE



- Angel history is significant to understand today's realities, 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 motors help reduce downtime of coating subsequent screens to a minimum.
- Cones and emulsion reservoir are 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 the 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 on finished 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 manual cone locking system with cone locking sensor.
- 220 V (Single Phase) Connection (Not required Three phase 440 V, & Pneumaticline).

ANGEL make for up to 1680 repeat and 3500 mm long screen

CKB-73 - CURING OVEN (SCREEN POLYMERIZER)



- Heavy & Specially fabricated MS structure body.
- Electronic panel with temperature control system.
- 2 Hp standard blower 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.

ANGEL make for up to 1680 repeat and 3500 mm long screen

CKB-72 - LACQUER DRYING - CLIMATIZER



- Heavy & Specially fabricated wooden body for long life.
- Electronic panel with temperature control system.
- 2 Hp 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 - 70 - AUTOMATIC EXPOSING MACHINE



Needs every demand of an engraver.
The most important features are exposure time, simple operation, constant light strength & incredible precision.

- Heavy fabricated structure for smooth working and long life.
- With standard make helozan UV bulb attachment.
- 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 panel with standard part.

CKB-71 - ENDRING FIXING MACHINE

- Specially fabricated structure for smooth sliding drum.
- Special type heating system in both head for fast end ring fixing.
- Ring fixing head & screen support bracket sliding on linier motion rail system.
- Electric panel box with heater timer / temperature control system.
- Machine suitable for 640 Repeat to 1018 & 1410 to 3500mm long screen.
- 440 V Three Phase Connection.



CKB - 89 - ENDRING REMOVING MACHINE

ANGEL make for up to 1680 repeat and 3500 mm long screen



ANGEL MECHTRONIK endring removing machine remove the end ring without use of any chemical edge of highly costly screen. The life of the endring also gets longer because no chemical comes in contact with the endring.

Specially and perfect designed removing blade for long life. A hot air blower performs a task that quickly remove the endring without damage from the screen.

- * Very easy and fast to use.
- * Specially designed blade.
- * Storage type body structure.
- * Extends the life of endring.
- * Extends the life of screen.

CKB-77 - RETOUCHING / CHROMIC STAND



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.

CKB-76 - DIGRESSING TANK

Degreasing tank: Made from one piece molded plastic material completely provided with one piece rubber sheet cover. Drain cock and suitable M.S. Iron stand 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 left in the degreasing tank with the aid of supporting devices for proper handling.

Degreasing screens is a very important part of the screen preparation process. It is important to degrease your screens prior to applying emulsion or film because new screens or re-stretched screens need to be free of grease, oil and dirt to avoid problems with the stencil quality.

CKB-78 - STRIPPING TANK



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 lid cover is provided for easy opening and closing of the tank. Drain valve is also provided completely 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.



CKB-75 - SCREEN UNPACKING STAND



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 for up to 1680 repeat and 3500 mm long screen

SPARES FOR ENGRAVING PLANT

ANGEL MECHTRONIK is the leading supplier of spears & machineries for processing textile market as well as high accuracy, metal precision products.



Jointless acrylic pipe



Screen carrier



Manual coating cones



Tension rings



Hand coating squeegee



Heater for endring fixing



Screen cutting drum



Shaping ring



Exposing cone



Spray gun



Screen handling clamp



Squeegee ring



Exposing rubber tube

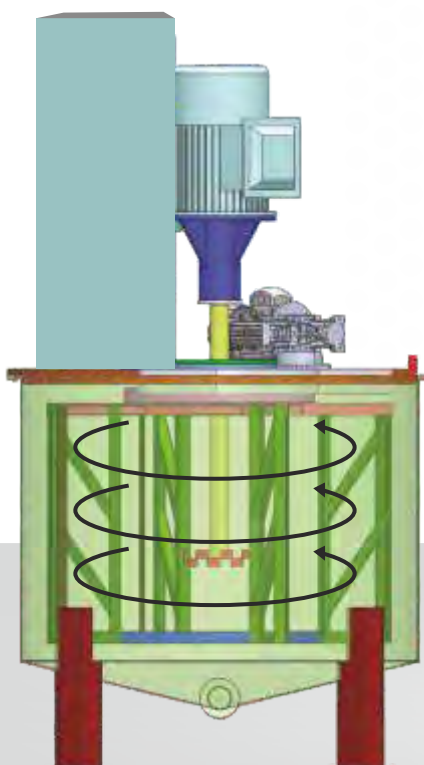
CKB-90 - HOT GUM COOKING PAN

- Structure of M.S. Channel.
- Steady structure design.
- Drive single shaft bevel gear.
- Blade & shaft of stirrer SS. 304
- SS. 304 heavy fabricated vessel.
- Pulley with V - Belt Drive



THICKENER PASTE PREPARATION UNIT - TPPS

- Dual mixing system for fast and even past making.
- Up down movement of the stirrer with speed control system.
- Very fast, easy, accurate process to prepare even paste uniform viscosity.
- Fully automatic with variable speed control cycle system.
- Heavy duty geared pump for fast transfer.
- TPPS - 1000, 2000 Kg capacity.



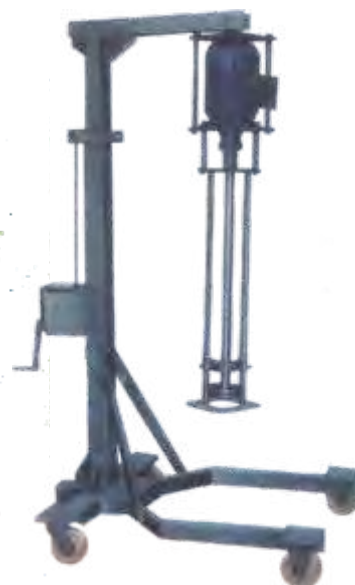
CKB-81 - COLOUR STAINER / MIXERS

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.

- One or two mixing heads
- Adaptable to various type of containers.
- Variable speed as required.
- Adjustable mixing time.
- Simultaneous mixing and washing phase.
- Continuous washing fed by circulation pump.
- Recycling of water in the washing cycle.
- Electrical control panel.
- Save labour & time.



Dual Mixing Unit



Movable Mixing Unit



- 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 SS. 304.



CBK-80 - VACUUM COLOUR STRAINER

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

- Filtration system body made by SS 304 Material.
- High vacuum water circulation pump.
- Top side hopper & bottom inside washing drain system.
- Silicon rubber arrangement for air-proof door locking.
- Lifting & Tilting unit with complete electronic panel.
- 440 V Three phase connection required.
- Easy door locking / opening system.
- Minimum bottom height & rolling system for easily drum transfer from inside the vacuum unit.
- SS 304 Ring with 125 & 150 mash complete fitting arrangement.

With motorised lifting & tilting device



CBK-85 - ROTARY DRUM WASHER

- Machine fabricated with heavy pipe 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 & gear box provided.
- Quick replace brush arrangement.
- 1.5 HP Water pump with motor for water presser.
- Short process for low water wastage.
- Standard high presser water-pump for fast washing.

GEAR PUMP

ANGEL provides various type of gear / pneumatic / hydraulic pump suitable for rotary screen printing machine and colour kitchen unit.



Gear Pump



Diaphragm pump



Vacuum Pump



Colour Pump SB-4 & SB-7



Colour Pump



Colour / Gum Pump



PROCESSING
TEXTILE MACHINERY



ONE STOP COMPLETE SOLUTION FOR

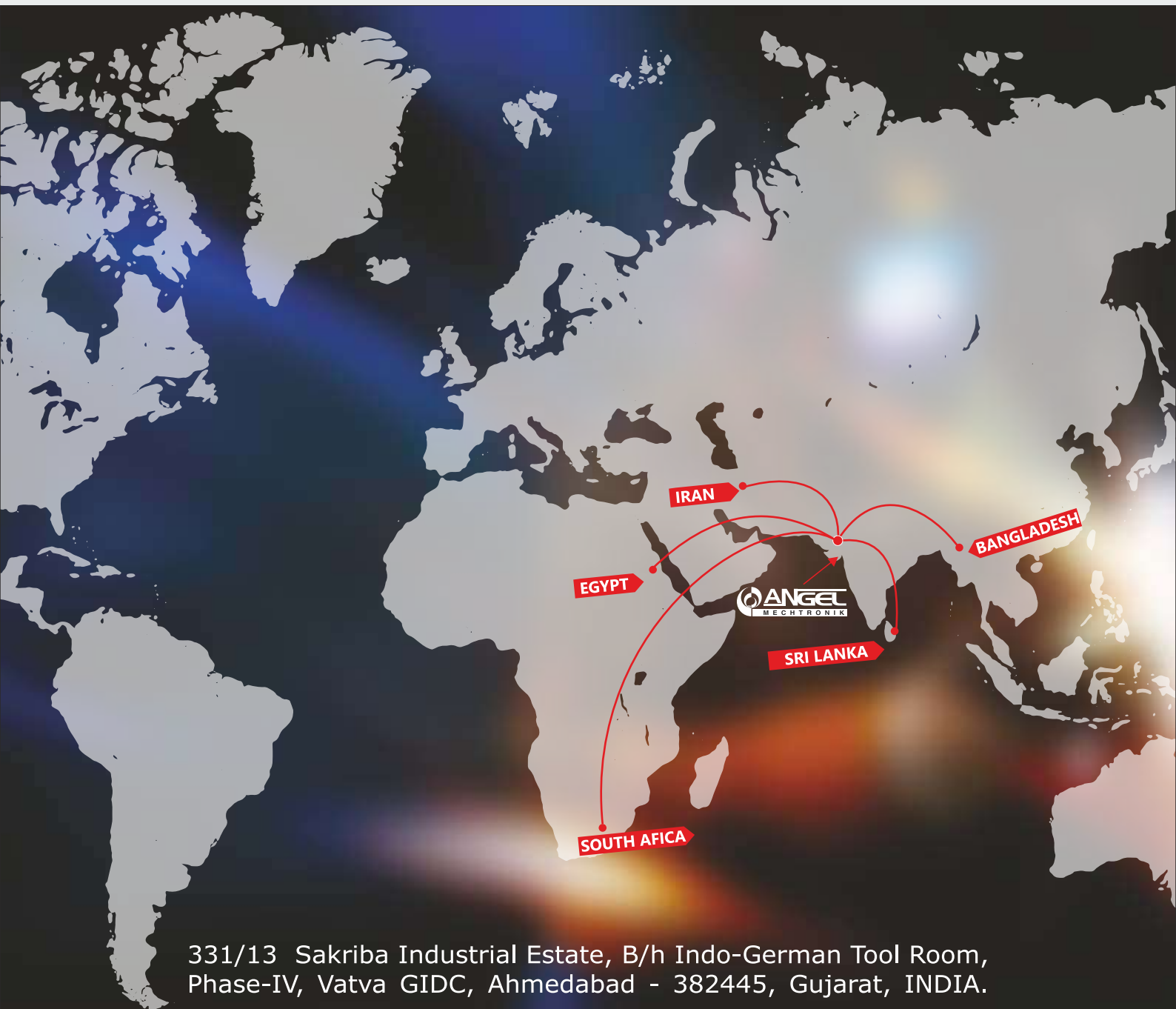


An ISO 9001 : 2008 Certified Company

MACHINERY AND SPARES OF

- ▶ ROTARY SCREEN PRINTING MACHINE
- ▶ ENGRAVING PLANT MACHINERIES & SPARES
- ▶ COLOUR KITCHEN MACHINERIES & CHEMICALS

W E E X P O R T



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