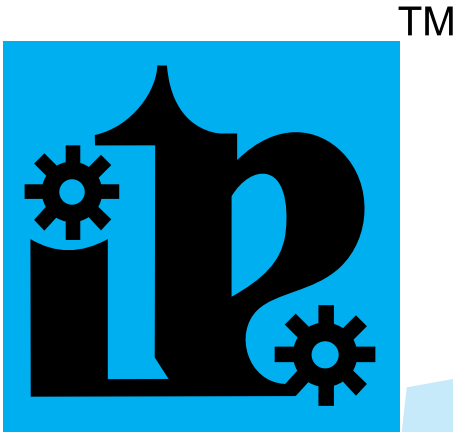


India's Largest Manufacturer of **FLAT BED** Screen Printing MACHINE



INDIAN



PRINT YOUR DREAMS...



INDIAN

Company Profile

Indian Textile Engineers, India's leading Company manufacturing Flat Bed Screen Printing Machines was established about more than four decades ago in 1971. A family owned company, ITE has been able to consistently provide its clients with high quality machines in addition to being proficient and competent in the competitive markets today. With a futuristic approach, the company has always looked ahead and offered clients holistic solutions for their needs from the initial levels of concept to the most advanced stages of technology.

The textile printing industries have high demands. And thus, to make sure clients get exactly as per their requirements, a company has to turn towards innovations that are beyond the ordinary. With the in house R & D department and continuous efforts to reach the core of client requirements, the company always emerges as winners by providing the exact solutions to client needs.

The company possesses more than 3000 Flat Bed Screen Printing machines and has **three meter** printing width machine that specializes in printing **bedsheets, polar blankets and mink blankets**, mink blankets specially printed through Penetration Mangle Device (Patent Pending) to get more penetration on blanket. The machine is technically advanced to meet all the versatile and various needs of textile printing industries. High performance and precise printing are the core of technology and operations at ITE.

Even after achieving so many accolades, this is only the beginning for ITE. The company is looking forward to the current launching of **High Speed Inkjet Textile Printer Scanning Mode**. The company's recognition lies in the success of all its new technology development and new product introduction that is specifically launched to satisfy the various needs of valuable clients. The company aims towards adding simplicity and user friendliness to printer, helping them to be more in tune and sync with both the user and the surroundings. The company is also working towards launching a Single Pass Inkjet Printer in the coming future.

LAUNCHING NEW PRODUCT LINE AT ITME DECEMBER 2016

With the ending of the year 2016 we have launched a high precise individual servo drive rotary printing machine, a high tech, cost effective Ultra violet Laser engraving system and CCK (Computerised Color Kitchen) at ITME 2016-Mumbai, that has been re engineered and designed to the modern requirements of the customer such as a compact machine spacing and ease of operation.

The company dreams of panning its wings across global shores and in a short span has become a leader by marking its territories in the international markets with its strong presence through exports in many countries apart from Egypt, Bangladesh, Malaysia, Nepal and Bangkok.



Established in 1971



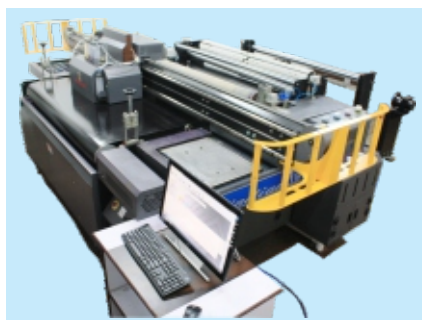
First Flat Bed Screen Printer - 1980



Exhibition Participation - 1973



ITE Factory - 2012



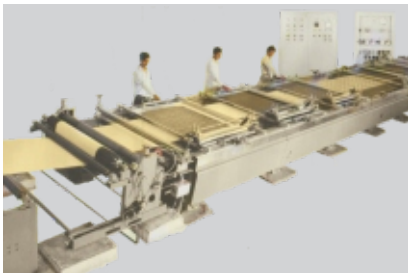
High Speed Inkjet Textile Printer - 2012



Exhibition Participation - ITME, 2016



1980



SEMI AUTOMATIC
SCREEN PRINTING MACHINE

1997



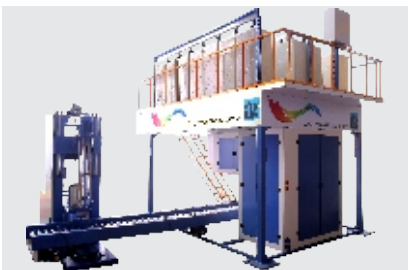
FULLY AUTOMATIC
SCREEN PRINTING MACHINE
WITH DUAL SERVO

2012



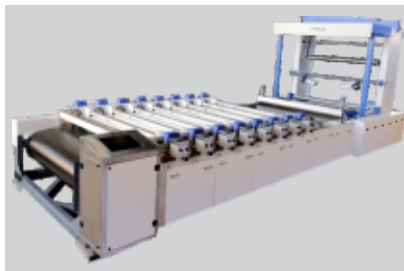
HIGH SPEED INKJET
TEXTILE PRINTER

2016



CCK (COMPUTERISED
COLOR KITCHEN)

2016



ROTARY PRINTING MACHINE
(INDIVIDUALLY SERVO DRIVE
SCREEN HEADS)

2016

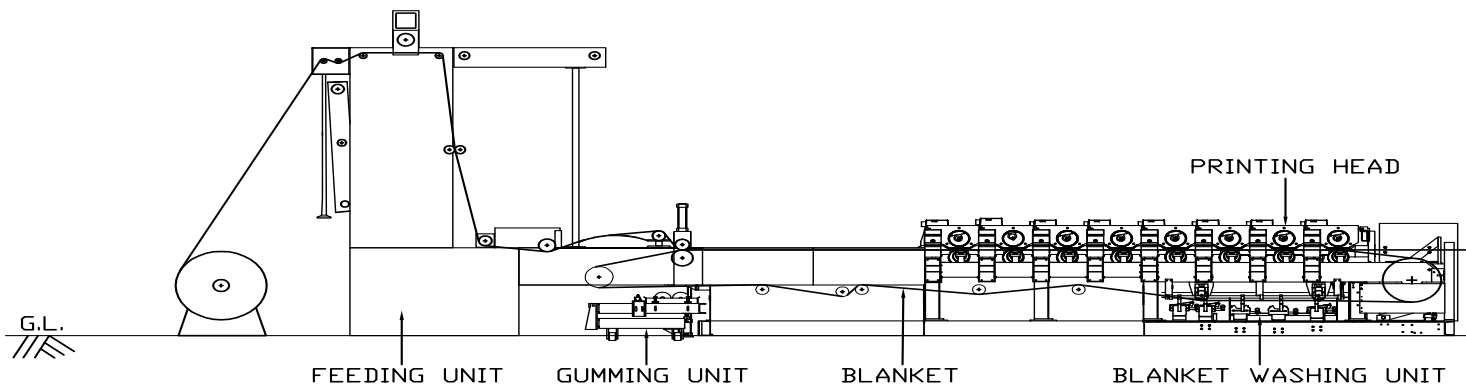


UV LASER ENGRAVING
SYSTEM FOR ROTARY

Rotary Printing Table up to 16 Color



Rotary Infeed



ROTARY SCREEN PRINTING

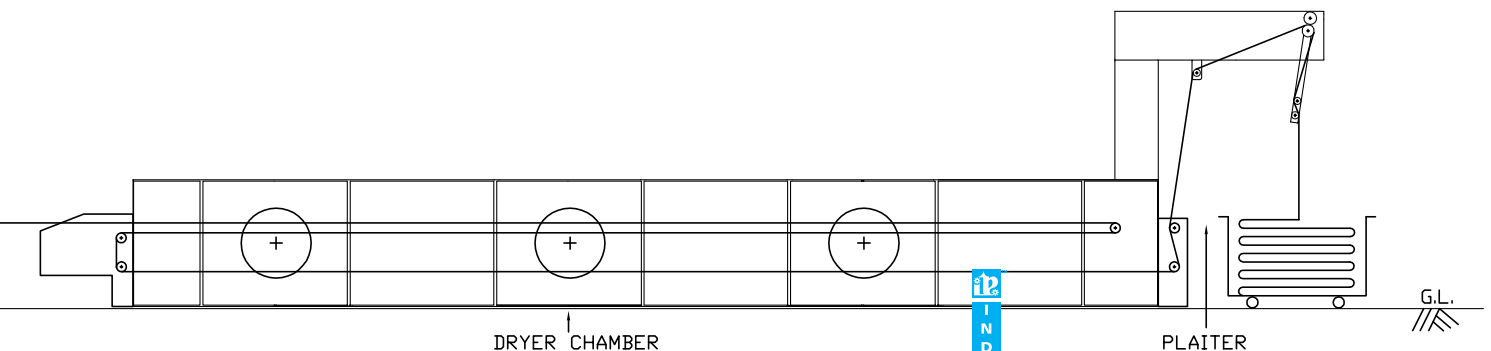
Technical Specification



Model (Width)	1280, 1620, 1850 & 2250 mm
Number of colours	Up to 16
Speed	Up to 80 metres per minute
In-feed	Knits / Woven
Screen Drive	Individual Servo Drives
Printing Heads	Closed, lifetime-lubricated Bearing
Squeegee System	Combination of Pnumatic Blade and Electro magnet Roller System
Operating and colouring side	Left & Right fixed - looking from In-feed
Gluing System	Wet (with Airflow Squeegee Blade) and thermoplastic gluing as option
Repeat possibility	640 - 819 - 914 - 1018 mm
Colour Pumps	Pneumatic / SB-7 reversible Gear Pumps
Dryer	4,6, & 8 Sections

3. Main Features :

- 1) Electrical panel design (**PATENT PENDING**) to avoid long cabling and reduction overall electrical noise / EMF
- 2) Feeding entry device equipped with dust collection, fabric tension control, rolling feeding, transmission roller and fabric edge-aligning device
- 3) Printing unit adopt advanced independent servo motor drive system with magnetic scraper, automatic color supply, blanket washing, blanket gluing, blanket heating and blanket correcting system
- 4) Advance E-CAT servo control system from DELTA for fast response time for correction and to minimize electrical noise
- 5) Each color print head is powered by DELTA servo motor and control independent drive system along with ABS Encoder
- 6) The speed of screen and blanket is adjustable to meet any kind of fabric printing with high definition print quality
- 7) PLC with the function of speed and time indicator, error diagnosis, register parameter set up and locking function, which help avoiding human error and makes machine user interface easy to work with
- 8) The gluing mechanism adopts magnetic rod gluing technique which applies more even, stable and bubble free glue



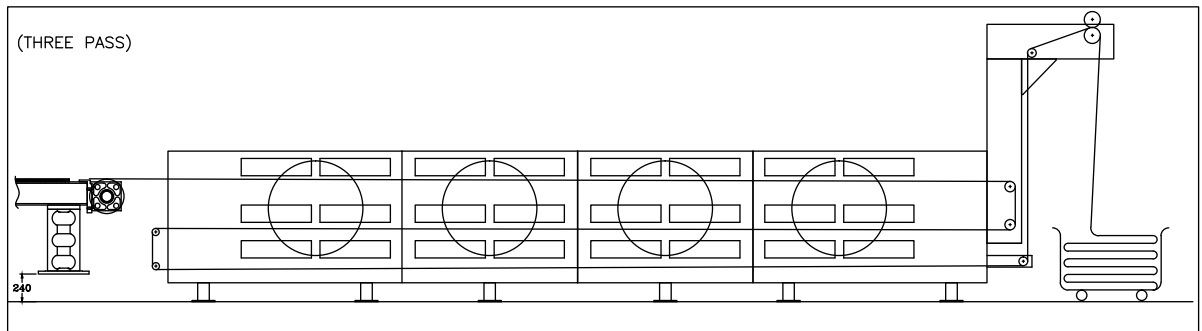
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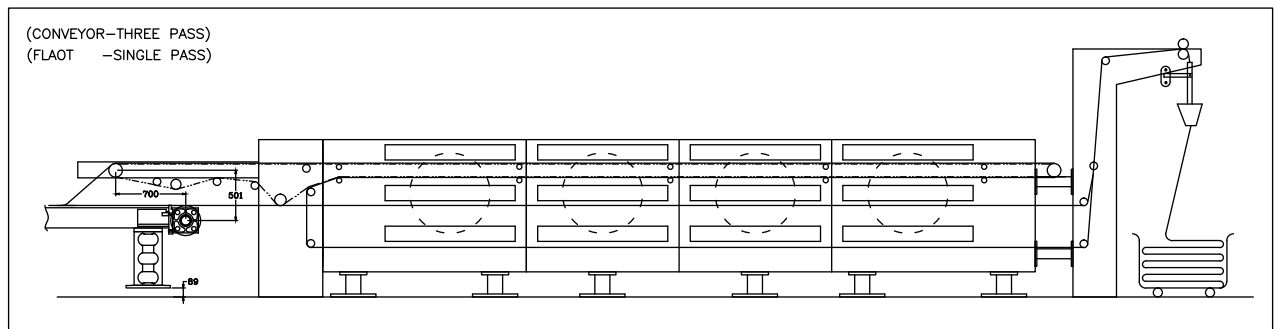
Conveyor Cum Float Dryer

Dryer can be used in Conveyor Mode with Three Pass System or Float Mode in Single Pass System

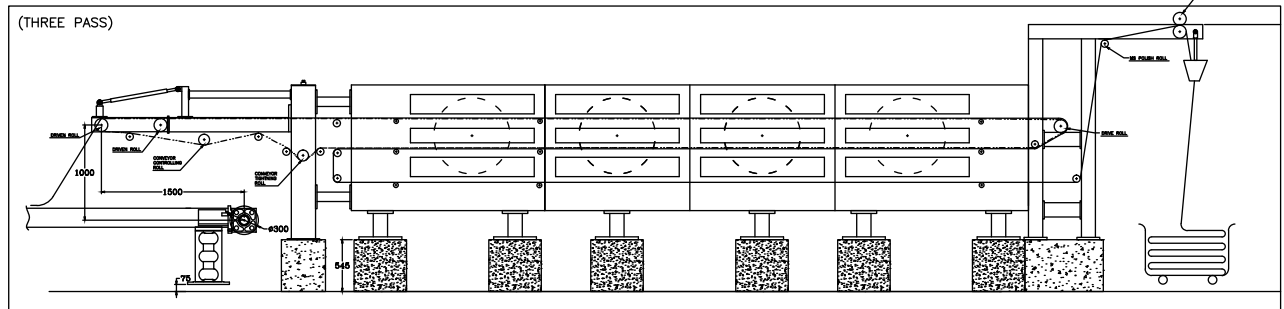
FLOAT DRYER FOR FLAT BED WITH SERVO PLAITER



CONVEYOR CUM FLOAT DRYER FOR FLAT BED WITH PLAITER - TYPE 'A'



CONVEYOR DRYER FOR FLAT BED WITH PLAITER - TYPE 'B'



Wider Width Conveyor Dryer For Flat Bed & Rotary printing machine



3-2 mtr Wider Width Machine Dryer

Wider Drying chamber is provided to dry heavily printed woven and knitted fabrics. Also special dryer for POLAR & MINK Blanket. Effective nozzle drying systems give a high drying capacity and uniform distribution of the hot air over the entire surface of the fabrics.

Drying takes place in 1 or 3 passes. Suitable exhaust fans are provided. Easy Accessibility to all parts of the system by door along both sides is provided.

Oil / Steam / Gas : All the three options are available

No. of Fan : 2/3/4/5/6 up to 10

No. of Exhaust : as per Applicable

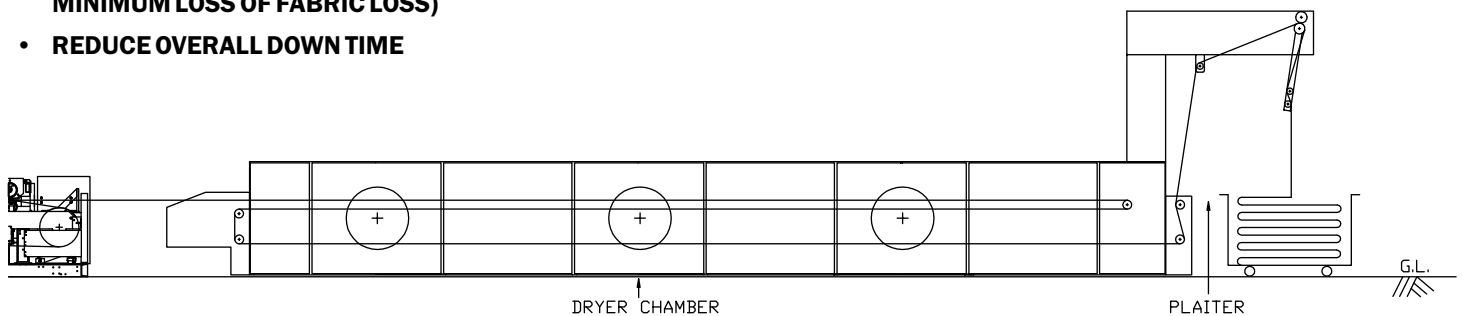
No. of pass : 1 & 3

Install Power Required for Dryer :

- For Regular Width : 3 HP (Each Fan)
- For Wider Width : 5 HP (Each Fan)
- Plater : Advanced Servo Motor
- Exhaust : 2 HP for POLAR & MINK Blanket Dryer

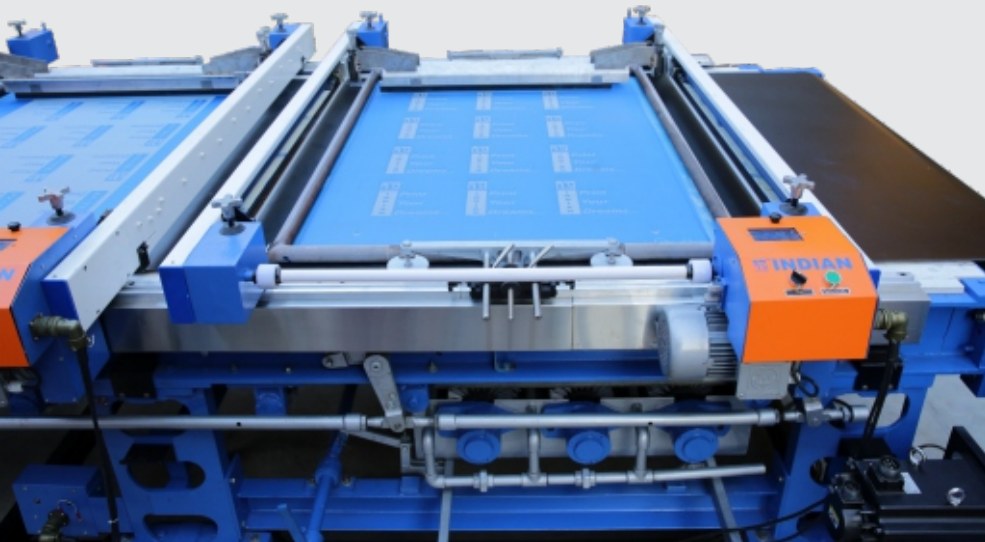
Advanced Servo Platter for Float Dryer

- **FAST RESPONSE TIME (IN AVOIDING FABRIC BEEN PULLED BY WASHING BRUSH)**
- **REDUCTION OF PRINTING FAULT DUE TO SAGGING OF FABRIC AT DRYER BODY**
- **ELIMINATION OF THE DANCING ROLL (REDUCTION IN BOEING AS WELL AS MINIMUM LOSS OF FABRIC LOSS)**
- **REDUCE OVERALL DOWN TIME**



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Printing Unit (Auto Trolley)



Free view of a screen surface

The entire screen surface is open to view the exposed design, and two side guided sliding systems for smooth movement of Squeegee Carriage (Auto Trolley).

Rapid, Versatile and Precise Squeegee movement

The Squeegee are driven by 3 phase Frequency Drive with Timing Belt System.

Trolley two types.

Special Features of this Trolley is given excellent sharpness and penetration across the printing area.

Increased Production Capacity

This has been achieved through robust construction of side rail, the incorporation of glass filled nylon liner, higher capacity 3 Phase Motor along with **Smart in build PLC control inverter drive to eliminate PCB card and reduce wiring as well as downtime.**



HEAVY DUTY INVESTMENT (MS)
DIE CASTING LIFTING LEVER



"HE-30" ALUMINUM T-SLOT
WITH SS INSERT THREADING "T"
SLOT NUT

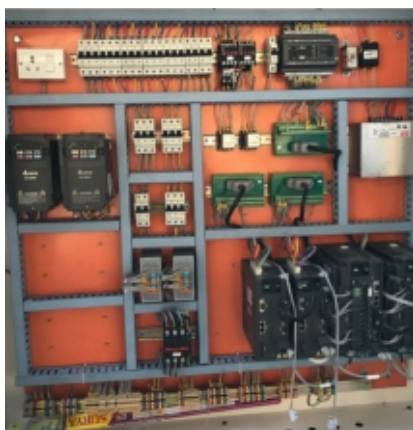


INDIAN 9000 TROLLEY



BEARING ANGLE TROLLEY

Electrical Control Panel



Servo Machine Electrical Control Panel for Blanket 7 EMC (Model SGB-9)

HMI Display Unit for control

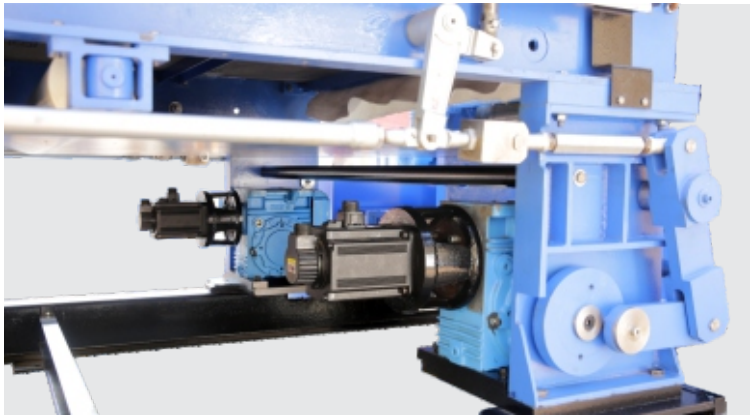
- Length of Repeat
- Speed Controller (Velocity)
- Delay
- Continuous Speed
- Drive Controller show faulty drive error

Programmer

- For Pallu body paint
- For Panel Printing



Ultra Modern Servo Lifting



Ultra modern Servo Lifting has extraordinary features

- Power Saving
- Space Saving
- Less down time
- Higher efficiency. (Save energy and easy operating)
- Reduce noise and vibration
- High quality Elecon Gear Box

Hydraulic Lifting System

Common Hydraulic System for Lifting & Micromatic Trolley Device

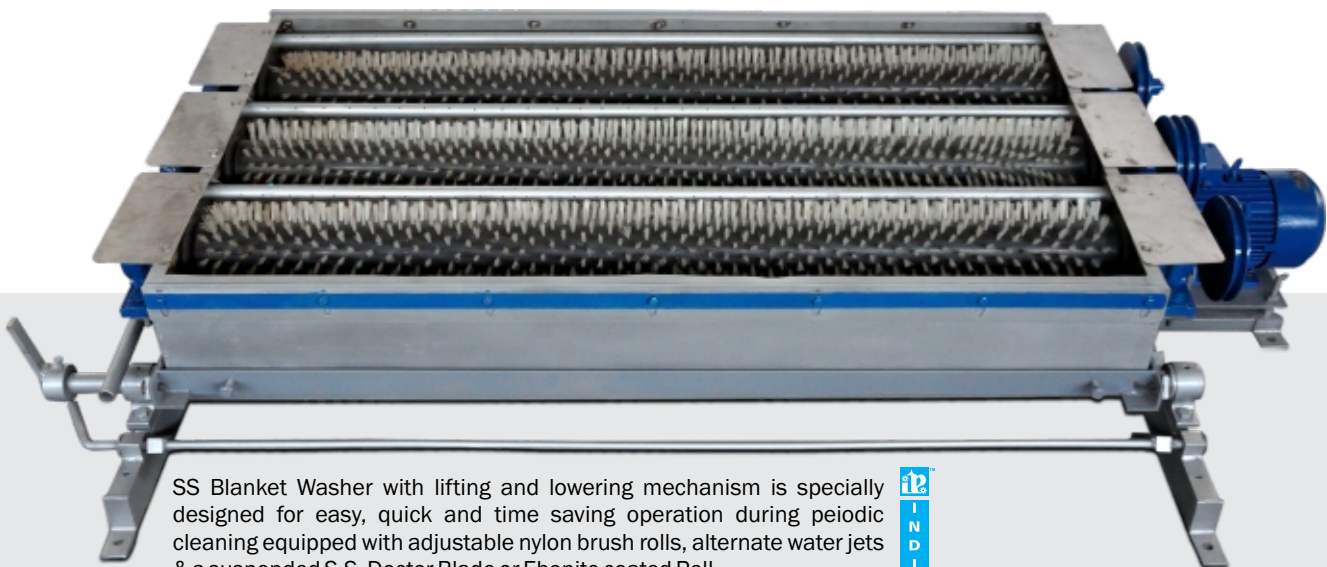
- Inbuilt Micromatic Hydraulic System (No separate Hydraulic Unit required for Micromatic Trolley)
- 5 HP for upto 12 Color & 7.5 HP for above 12 Color

Required Spare Parts for Installing Hydraulic Lifting System

- Double Coil Valve
- Single Coil Valve
- Gear Pump
- Sub-Plate
- Check Valve
- DRV 12 Valve
- Hose Pipes & Fittings



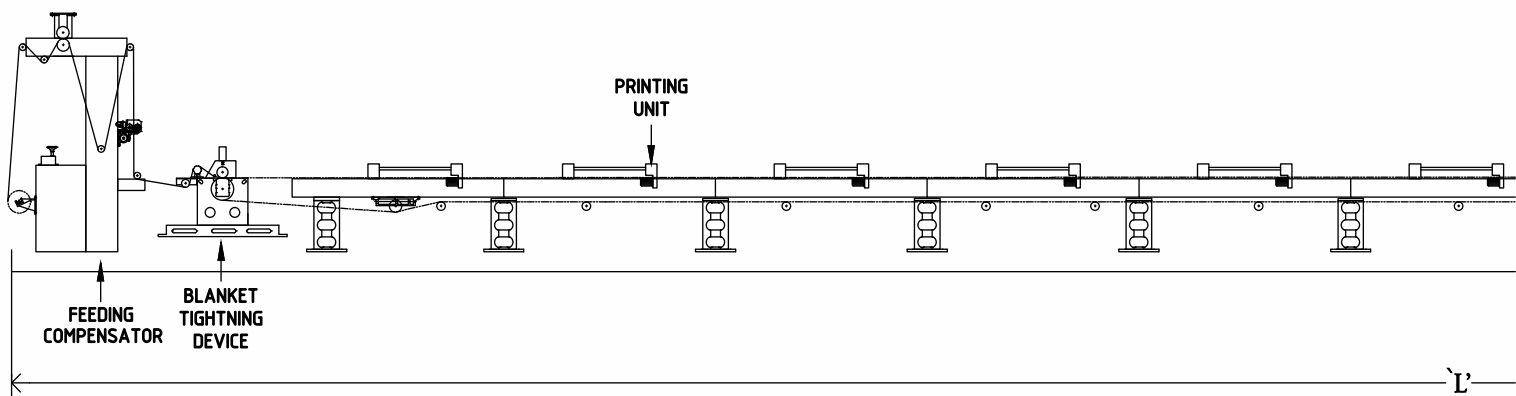
Blanket Washing Unit



SS Blanket Washer with lifting and lowering mechanism is specially designed for easy, quick and time saving operation during peiodic cleaning equipped with adjustable nylon brush rolls, alternate water jets & a suspended S.S. Doctor Blade or Ebonite coated Roll.



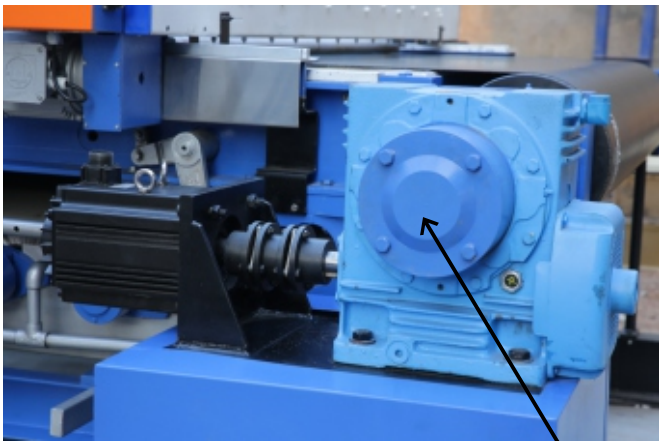
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Dual Servo up to 30 Color Printing Machine

Servo Motor along with Elecon Gear Box & Precision Special Backless Clutch



SPECIAL BACKLESS CLUTCH

TECHNICAL DATA

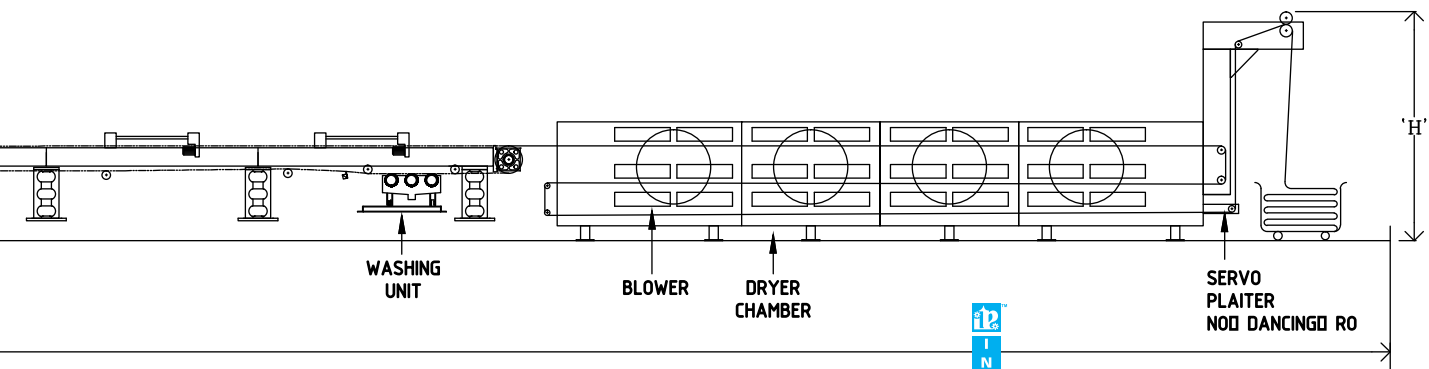
Printing Width - 1225,1525,1825,& up to 3200mm
 Printing Table Length -15/18/21/24/27/30 to 50mtrs
 Number Of Colours - 8/10/12/16/18/ 20/ 22/ 24 / 30
 Printing Repeat Ranges - 500 to 3000mm

Working Space
 Requirement Of Standard
 Machine Size
 Approximate:

Printing Width - 48"
 Printing Table Length - 65"
 Number of Colours - 10
 Repeat - 36"
 Dryers - 4 Fan Float Dryers

CONNECTED LOAD
 MODEL IGB-9 - 38 H.P
 MODEL SGB-9 - 42 H.P
 Optional in Both Model for
 Electric Heater - 12 H.P

LENGTH	WIDTH	HEIGHT
L	W	H
119' ft	17' ft	10' ft



Innovation! We can be forever innovative,



- Above Model available only for 32 print heads based printer

High Speed Inkjet Textile Printer

Indian Textile Engineers Printer & Printing Systems are open Ink based Systems, meaning that they can be connected to computers using different operating systems and software, employing dye-stuff and standard consumables from the prime international companies.

Indian Textile Engineers has been producing Textile Flat Bed Screen Printing Machines for 4 decades, from the single inkjet printer to the complete turnkey plants with Inkjet Traditional as well as Combined Technology.

Indian Textile Engineer's entire know-how and technical solutions are completely established in India with technical components made in India right from the software to the spare parts (excluding those standard components normally available in the market).

PRINTER MODEL :

- Model **GB-9** - Production upto 100 sq. mtr. Per Hour *
- Model **GB-18** - Production upto 200 sq. mtr. Per Hour *
- Model **GB-27** - Production upto 400 sq. mtr. Per Hour *

* Depends on cloth weight



Advanced Fabric In-feed system

Technical Data

- Connected Load : 14 HP Approx.
 - Single Phase : 10 HP
 - Three Phase : 4 HP
- Printing Width : 1600 mm, 2500 mm, & 3200 mm
- Number of Colours : C M Y K (O R B Gr Optional)
- Ink : Reactive, Disperse, Pigment and Acid



that is why we create masterpieces



- Above Model available only for 32 print heads based printer

Inkjet Textile Printer Dryer

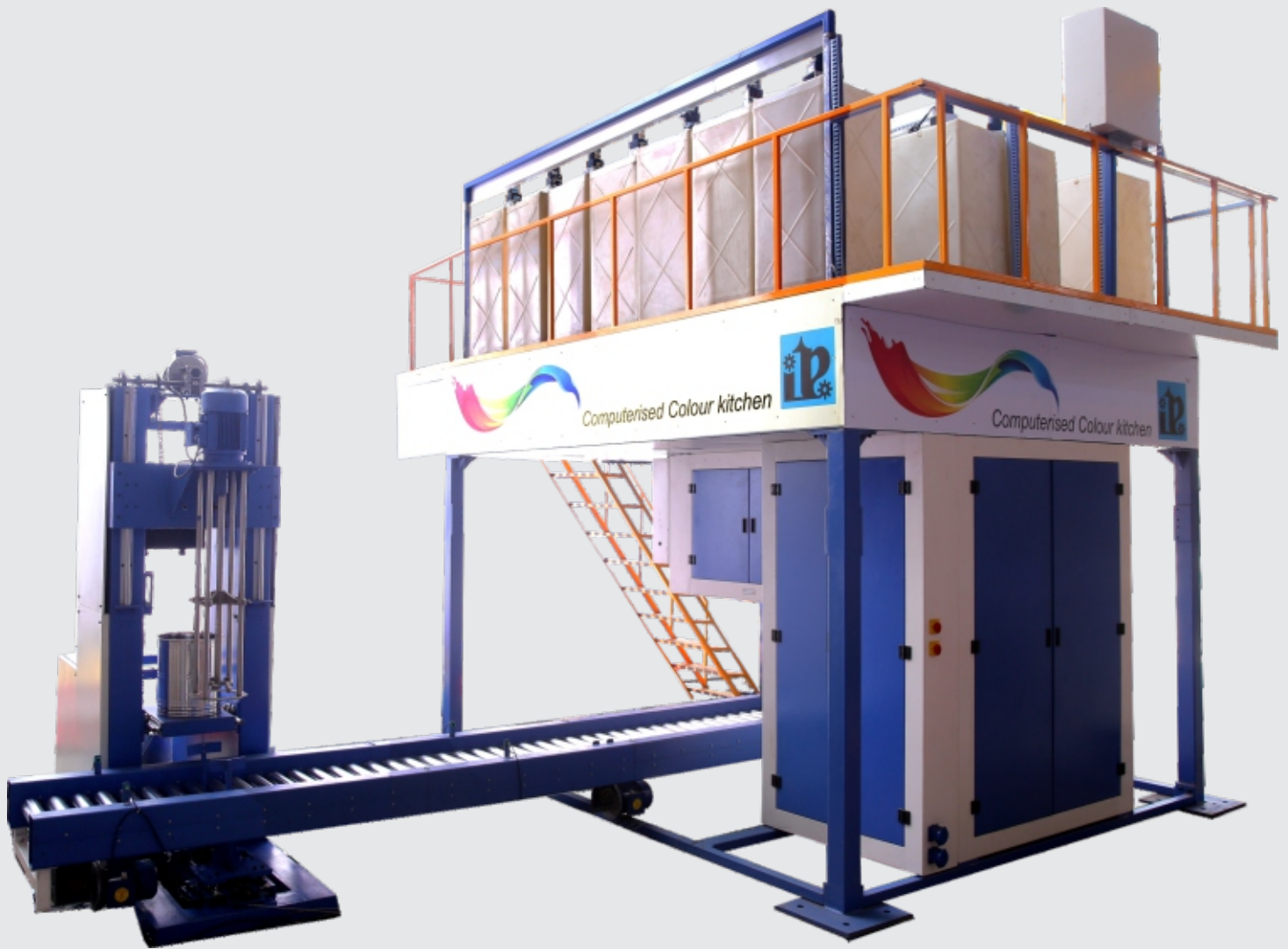


- Heating System Available in Gas
Thermic Fluid



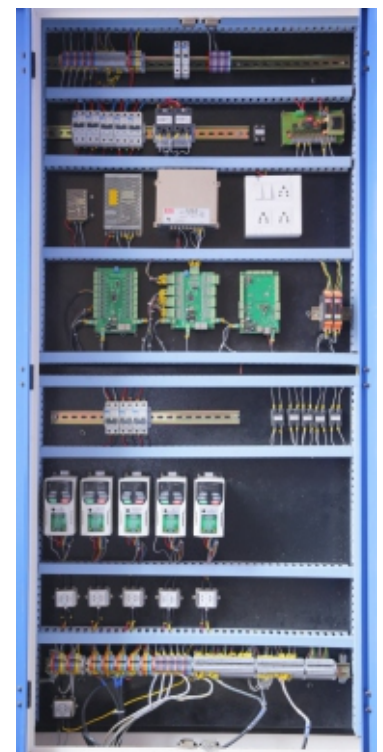
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CCK (COMPUTERISED COLOUR KITCHEN)



Salient Features

- Repeat color accuracy and color consistence
- Avoid Dye wastage and save dye cost
- Environment Friendly
- Save manpower cost
- Desponding Valve Design (**PATENT PENDING**)



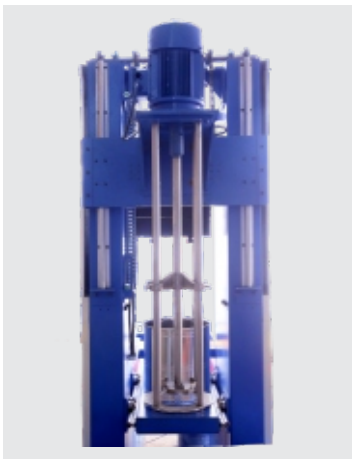
Dedicated Advanced Control Electronics



Computerise Color Kitchen is a specially engineered color kitchen for textile mills that require very accurate and precise liquid dye dosing for textile printing. It helps in the process of eliminating batch to batch human error and greatly reduces the loss of dyes due to excessive wastage. In one of the most important and critical components of the CCK, ITE has constructed a fully stainless steel Tip Seal Patented Valve

Technical Specifications of Computerised Color Kitchen - CCK

1. The Dosing accuracy is approx +/-2 grams with a consistent & high quality industrial grade weighing scale to achieve batch to batch repeated color accuracy
2. Total of 24 Nos of 200L self color tank capacity.
3. Total of 3 Nos of 200L capacity Dry powder dye dissolver with high speed stirrer
4. The maximum capacity of 500Kg of Gum storage along with variable speed screw pump and tip seal valve
5. Individual recirculation and stirrer have been provided on each pump and on each tank to avoid any suspensions in the liquid dye respectively
6. Durable stainless steel tip seal pneumatic operated valves for accurate dosing and to avoid unnecessary dripping from the nozzles **(PATENT PENDING)**
7. Extremely Robust roller conveyer for steady movement of the barrel/drum
8. A High speed 3 kVa stirrer for color pest preparation has been provided
9. A Durable PTFE Diaphragm pump has been provided for feeding liquid dyes and dye suspensions in the main tanks
10. High speed electronics with robust silicon structure for industrial durability has been provided along with a consistent & accurate software designed by ITE.
11. A Detachable design for easy installation and to save space has been thoughtfully implemented



HEAVY DUTY 3 HP STIRRER



HEAVY DUTY 200 L DYE DISSOLVER
WITH STIRRER

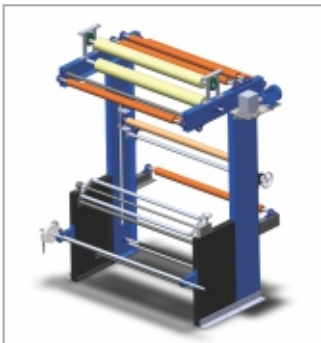
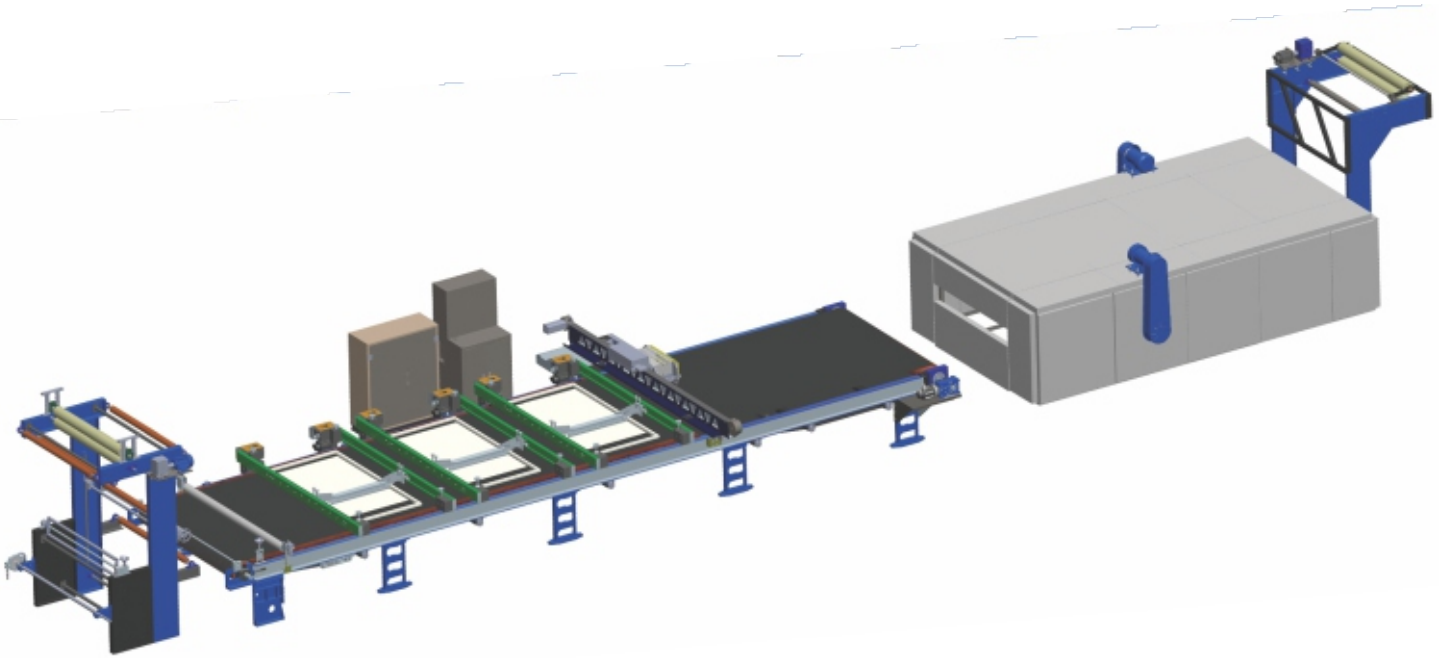


200 L SELF COLOR TANK
ALONG WITH STIRRER

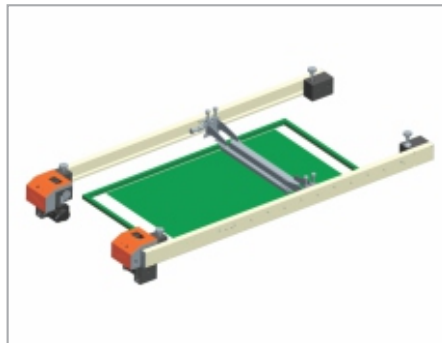
"HYBRID DIGI-FLAT"

Right partner of printing

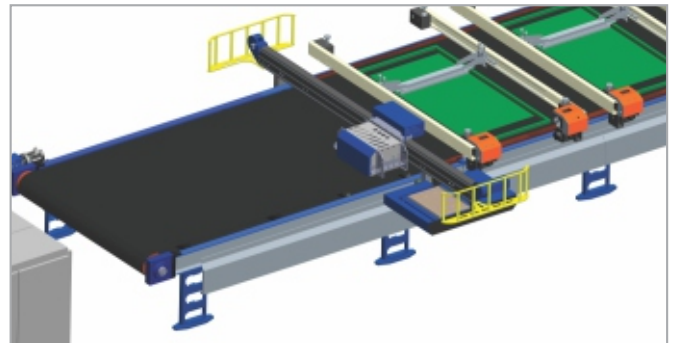
Hybrid Digi-Flat printing machine innovative steps in printing technology. As a part of our incessant innovation we are introducing combination of Inkjet Printer and Flat Bed Screen. Printing limitations comes to an end by **HYBRID** technology. **"TOTAL INNOVATIVE PRINTING SOLUTION FROM CONCEPT TO FABRIC"**.



ADVANCED FABRIC INFEEED



DUAL SERVO MOTOR TROLLY



ROBUST & REPAIRABLE SG-1024 BASED
INKJET PRINTING SYSTEM

Salient Features

- Minimization or elimination of registration issues due to minimized numbers of screen.
- Minimization of Joint problems with combination of inkjet printers.
- Cost reduction up to 33%* is possible due to the solid patch print on screen.
- Faster preparation of repeat designs.
- Available in Peizo Inkjet Technologies.

- Available in various size to suit the need of the customers.
- Build on a rugged structure to suit the industrial environment.
- Easy to use Control Panel with locking facility for Safety.
- Production up to 10,000 mt. in a day.**
- "N" Numbers of Colours can be paint @ less space.

*Depend on design area print by digital.

**Depend on the head quantity on inkjet printer.



Inkjet Screen Engraving For Flat Bed Screen



Salient Features

- Reduction in step for screen preparation meaning faster output.
- Minimization or elimination of registration issues.
- Minimization of Joint problems since the whole screen is exposed at one instance.
- Cost reduction up to 30% is possible due to the minimization of screen rejections.
- Faster preparation of repeat designs as no time is needed to locate the archive films.
- The quality of designs exposed are far superior to the film based exposing.
- Available in Peizo Inkjet Technologies.
- Available in various size to suit the need of the customers.
- Can print up to 1440 DPI, which results in Higher LPI halftones.
- Build on a rugged structure to suit the industrial environment.
- Easy to use Control Panel with locking facility for Safety.
- USB Interface

Flat Bed Inkjet Engraver based on Computer-direct-to-Screen Technology for Flat bed Screen gives consistent quality, satisfactory rates and prompt services in textile industries from last decade. In our on going exercise of continuous development from last decade we now wish to explore possibilities to expand our customer field in Textile Screen Printing Industries.

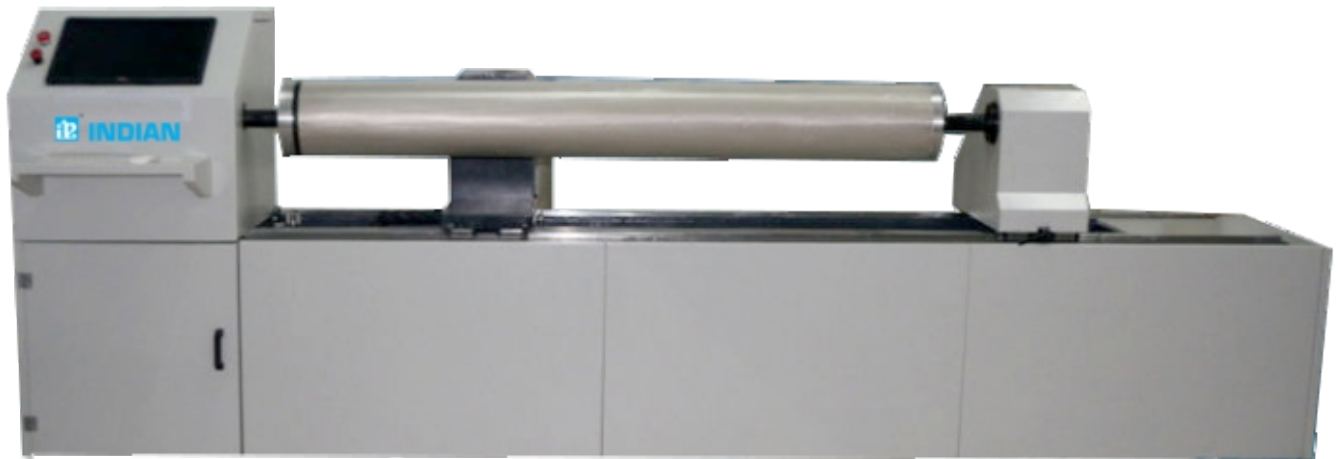


Print Technology	On-demand Peizo Inkjet Technologies
Ink Delivery System	Continuous ink system with 1000 ml refillable cartridge
Colours	Black
Print Resolution	360 x 360, 360 x 720, 720 x 720, 360 x 1440
Power Supply	1 Ph 230 v 50 Hz
Operating Environment	Temp: 18-22, Humidity: 20% - 70% RH, non-condensing



PRINT YOUR DREAMS...

UV (Ultraviolet) Laser Engraving Machine Rotary Screen



UV(Ultraviolet) Laser engraving machine is a unique UV Laser Fiber Optic Multi Diode Platform that is based on the Rotary Screen engraving machine, It reduces the cost, increases the precision and speed of Rotary screens. We are using a very powerful Made in USA laser source(405nm) for exposing the rotary screen.

1. Adopting a Multi UV laser diode for high power output and selecting 8,16,32 & 64 Nos of diodes as per production requirement.
2. High quality Made in Germany focus lens has been used for high precision.
3. Implementation of high speed fiber optic technology to avoid the laser transmission loss.
4. Seam less image expose for high definition and better printing quality
5. Dedicated ITE control software to reduce "Moire"

Model	GB2200	GB3200	GB3500
Screen Breadth	2200mm	3200mm	3500mm
Screen Repeat	640mm standard (819mm/914mm/1080mm optional on demand)		
Resolution	360 DPI / 720 DPI (special resolution can be customized on demand)		
Registration Accuracy	± 0.02mm		
Imaging Light Source	405 nm Laser diode		
Engraving Speed*	12m ² / h (360 dpi) 6m ² /h (720 dpi) 4-5 pcs/h 2200mm 720 dpi * Speed will depend on coating quality & coating thickness		
Acceptable File Format	TIFF / BMP		
Interface	USB		
Working environment**	Temperature 5-28°C, Humidity 30~80% (Not-condensing), Lighting : Yellow light **The above mentioned temperature and environment is mandatory to achieve optimum laser diode performance and diode laser life		
Power	2KW/220V, 50HZ		
Overall size	3400 x 700 x 1300 mm	4300 x 700 x 1300 mm	4800 x 700 x 1300 mm
Packing size	4200 x 1000 x 1550 mm	5100 x 1000 x 1550 mm	5600 x 1000 x 1550 mm
Weight	1000kg	1200kg	1500kg



Gauze Stretching Machine

For Flat Bed Screen



Gauze Stretching Machine for uniform stretching of several screens in one stretching process :

- Maximum Fabric Width 3200 mm
- Any Gauze length for 1 or several screens can be stretched due to the sliding carriage with clamp carriages.
- Universal mechanism in which the Gauze need not be stretched over the whole machine length and ability to adapt to all stretching widths.
- High production by contemporary stretching of several screens
- Easy operation at control panel for length and crosswise stretching and frame pressing against the gauze
- Perfect contact of the screen frames with the gauze by means of mechanical lifting and crosswise gauze-down-holders.
- Standard length of the machine of 6m (20') can also be delivered longer or shorter by sections of 1.5m and the machine width up to screens of 3.2 m (Length or width)

Automatic Flat Screen Washing & Drying Machine



Note : For better reliability we strongly recommend Soft (RO) water to be used in the machine

Salient Features

- Complete construction in stainless steel 304
- Continuous charge of screen, conveyor belt for transport of screen
- Screen washing in sequence without down time
- Get more production than existing conventional washing system (manually by labour)
- Saving in cost of labour
- Washing jets on oscillating tubes
- High pressure washing system
- Screen brushing
- Screen drying facility
- Low water consumption
- Power installed 15 HP (approx.)
- Electric Control Panel
- Pressure pump with electric motor



PRINT YOUR DREAMS...



TM

INDIAN TEXTILE ENGINEERS

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