India's Largest Manufacturer of FLAT BED Screen Printing MACHINE

INDIAN

PRINT YOUR DREAMS...
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.
Growth Journey

1980
- Semi Automatic Screen Printing Machine

1997
- Fully Automatic Screen Printing Machine with Dual Servo

2012
- High Speed Inkjet Textile Printer

2016
- Rotary Printing Machine (Individually Servo Drive Screen Heads)
- CCK (Computerised Color Kitchen)
- UV Laser Engraving System for Rotary

Print Your Dreams...
Rotary Printing Table up to 16 Color

Rotary Infeed
### 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

### Specifications

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

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

(CONVEYOR-THREE PASS)

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

(THREE PASS)
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
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.

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

Electrical Control Panel

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
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 periodic cleaning equipped with adjustable nylon brush rolls, alternate water jets & a suspended S.S. Doctor Blade or Ebonite coated Roll.
Dual Servo up to 30 Color Printing Machine

Servo Motor along with Elecon Gear Box & Precision 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:

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

<table>
<thead>
<tr>
<th>LENGTH</th>
<th>WIDTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>119' ft</td>
<td>17' ft</td>
<td>10' ft</td>
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</table>

Print Your Dreams...
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

**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

Inkjet Textile Printer Dryer

- Above Model available only for 32 print heads based printer

- Heating System Available in Gas Thermic Fluid
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)
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 Diaphram 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
"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".

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.

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
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"

<table>
<thead>
<tr>
<th>Model</th>
<th>GB2200</th>
<th>GB3200</th>
<th>GB3500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Breadth</td>
<td>2200mm</td>
<td>3200mm</td>
<td>3500mm</td>
</tr>
<tr>
<td>Screen Repeat</td>
<td>640mm standard (819mm/914mm/1080mm optional on demand)</td>
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<td></td>
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<tr>
<td>Resolution</td>
<td>360 DPI / 720 DPI (special resolution can be customized on demand)</td>
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<td></td>
</tr>
<tr>
<td>Registration Accuracy</td>
<td>± 0.02mm</td>
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<tr>
<td>Imaging Light Source</td>
<td>405 nm Laser diode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engraving Speed*</td>
<td>12m² / h (360 dpi) 6m³/h (720 dpi) 4-5 pcs/h 2200mm 720 dpi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acceptable File Format</td>
<td>TIFF / BMP</td>
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<td></td>
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<tr>
<td>Interface</td>
<td>USB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Working environment**</td>
<td>Temperature 5-28°C, Humidity 30~80% (Not-condensing), Lighting : Yellow light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>2KW/220V, 50HZ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall size</td>
<td>3400 x 700 x 1300 mm</td>
<td>4300 x 700 x 1300 mm</td>
<td>4800 x 700 x 1300 mm</td>
</tr>
<tr>
<td>Packing size</td>
<td>4200 x 1000 x 1550 mm</td>
<td>5100 x 1000 x 1550 mm</td>
<td>5600 x 1000 x 1550 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1000kg</td>
<td>1200kg</td>
<td>1500kg</td>
</tr>
</tbody>
</table>
Gauze Stretching Machine for Flat Bed Screen

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
- 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

- 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