ROTARY SCREEN PRINTING TABLES

Magnetic Squeegee System

**ROTARY SCREEN PRINTING TABLE**

Comprising of a suitably fabricated steel Base-frame structure retaining the following:
- A Multi-Ply Printing Blanket, complete with Tensioning Beams and Blanket Support Rails.
- Printing Head/Carriage Guide Runner Rails arrangement
- Printing Head/Carriage Variable Speed Drive system.
- Stainless Steel Splash-Guards.
- Guttering arrangement to Drains for Washing-off purpose.

**ROTARY SCREEN PRINT CARRIAGE**

Comprising of a robustly fabricated Print Carriage Frame, ready prepared for mounting onto the Print Table and retaining the following:
- Rotary Screen Tensioning Units, consisting of a pair of Chromed Steel constructed ‘Support Bases’, with each Base suitably machined for supporting the Screen Retainer Bridges, being withheld by a pair of Robust Tension Bars, complete with mechanisms for controlling the Screen Height, Longitudinal and Lateral Micro-Set movements.
- Service side Screen Retainer Bridge being adjustable, fitted with a Quick-release Clamping System to accommodate the Varying Screen lengths, complete with Pneumatic controlled Screen Tensioning and Screen Lift mechanism.
- Operator side Screen Retainer Bridge, equipped with Screen Drive engaging system, complete with remote auxiliary Operator control panel for controlling the Electrical and Pneumatic parameters of the Machine.

**Adjustable Rotary Screen Tensioning Unit**, retaining a Quick Release Clamping System to accommodate the varying Screen Lengths

**The Screen Repeat Alignment Gearing**, consisting of a Motorized Gear Rack system for Centering the Repeats of the Rotary Screens.

**Control Panel**, housing all related Electrical Controls, together with Operator remote auxiliary Control Pulpit, suitably mounted on the Printing Head for accessibility.
FLAT SCREEN PRINTING TABLES

PRINTING CARRIAGE: Rubber Squeegee System
Comprising of a Galvanized robust Steel fabricated Framework, supported on a series of Locating Carrier Wheels, and retaining the following:
- A hinged Screen Holding Frame, suitably prepared with adapters for the Asian and European Type Flat Screen Setting/Locking systems,
- A Pneumatic operated Screen Lifting mechanism,
- A Motorized Variable Speed Squeegee Drive system, complete with adjustable Travel Limiters, PLC Controlled for Multi-Stroke and Flood-Stoke Colour Application,
- Sprung loaded Squeegee Retainers complete with calibrated settings for controlling the Colour Application by the Squeegee system,
- A Motorized Variable Speed Print Carriage Drive system, PLC Controlled for Auto-engaging of the Print Carriage to the Repeat Setting, complete with related Electronic system for controlling the Print Carriage Auto / Alternate / Manual Travel Mode,
- A Fabric Roll Support/Spreading attachment, useful for the Operator to apply the Fabric onto Print Table Surface.

The Electrical and Pneumatic Control Cabinet suitably connected to Printing Head Frame unit, housing all related Operational Switch-gear, together with Operator Control panel, all ready prepared for incoming Supply.

PRINTING TABLE
Comprising of a Galvanized Steel Base-frame Structure, retaining a Reinforced Marine Plywood Table Surface, and covered with 2 layers of Polyester Underfelt (for Soft-Print Table System) and a Polyester/PVC coated Print Blanket, inclusive of necessary Print Carriage Runner Rails, a series of adjustable Repeat Blocks for Auto-engaging of the Print Carriage to the required Repeat settings, and Drainage side Channels.
The Printing Table being equipped with a 3 Phase Electrical Supply Conductor Rail System, and a Retractable ~Drum~ Type Pneumatic Air Supply System for Operational Services to the Print Carriage and other related Optional Extra Accessories.

TABLE HEATING SYSTEM
An Electrical Heated Under-blanket System is offered as Optional Extra, for maintaining the Print Table Surface heated up to 65 Deg Cent., comprising of a special Wire Mesh for enclosing between the 2 Layers of Underfelt, complete with Auto-Transformer for Setting the desired Temperature.

<table>
<thead>
<tr>
<th>PRINTING WIDTH (cm.)</th>
<th>TABLE/CARRIAGE</th>
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<tbody>
<tr>
<td>A</td>
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<td>300</td>
<td>345</td>
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<tr>
<td>320</td>
<td>365</td>
</tr>
</tbody>
</table>

Pneumatic Camping System for Auto-engaging of the Print Carriage to Repeat Blocks
The “Manual” Type Printing Tables, comprise of the following:
- A Galvanized Steel Base-frame structure retaining Leg height adjusters and Floor Steel containments for ensuring Linear Expansion of the Table Structure.
- A reinforced Laminated Chip Board Table Surface, covered with 2 layers of 4 mm. thick Polyester Under-Felt.
- Table Print Surface comprising of a ~Contex~ PVC coated Single Ply Polyester Print Blanket.
- Printing Table, equipped with Printing Screens Locating/Support Rails inclusive of relative Repeat Blocks and Drainage side channels.

Electrical Heated Under-blanket System
With the increase in the demand for Garments to be Printed with Plastisols and Rubber Print Pastes, Electrical Heated Under-blanket System is offered as Optional Extra for maintaining the Print Surface heated up to 65 Deg Cent., comprising of a special Wire Mesh for enclosing between the 2 Layers of Under-felt, complete with Auto-Transformer for Setting Re-desired Temperature.

The advantages of using the K+Z Printing Tables are due to the following:
1) Higher Print Definition obtainable from the K+Z (Soft Surface) Printing Tables.
2) Production reliability as opposed to the Pallet Printers.
3) The ability to use Heated Under-blanket facility and Infra-red Heated Traveling Carriages for Drying the Printed Fabrics.

Average Production from a K+Z 45 Mts Long Manual Type Printing Table are as follows:
- Single (1) Colour: 1,300 Cut Pieces/Hour
- Two (2) Colours: 950 Cut Pieces/Hour
- Three (3) Colours: 600 Cut Pieces/Hour
- Four (4) Colours: 350 Cut Pieces/Hour

INFRA-RED HEATED TRAVELING CARRIAGES
FOR THE CONTINUOUS AUTO-DRYING OF PRINTED FABRICS ON PRINT TABLES,

The Infra-red Heated Traveling Carriages, are suitably formatted for applying onto the Various Types of Print Tables, having being robustly fabricated as a Galvanized Steel Framework, supported on adjustable Runner Wheels, and Driven by AC Inverter Drive Variable Speed Motor-gear Units.

The Traveling Carriages Heating System, comprising of a series of Electric Infra-red Heaters being supported within Reflector Capsules, together with a series of Re-circulating Fans connected to Air-ducting arrangements for delivering the Heated Medium directly onto the Printed Fabric.

The Electrical Control Cabinet mounted on the Traveling Carriage Frame Unit, housing all the related Operational Switch-gear, inclusive of a Electrical Conductor Rail System being supported on the Print Table Framework by applicable brackets, and ready prepared for Incoming Electrical Supply.
ROTARY SCREEN WASHING MACHINES

TYPE I) SINGLE: For Auto-washing of One Rotary Screen up to 110 cm. Repeat.

TYPE II) DOUBLE: For Auto-washing simultaneously of Two Rotary Screens up to 72 cm.

The Rotary Screen Washers are self-contained units of robust stainless steel construction. Once the Screens are placed onto the Machines, the washing cycle is completely automatic. The nylon bristled Brushes support and rotate the Screens whilst being internally and externally sprayed by high pressure Fan type Water Jets.

- A Screen thrusting arrangement connected to the Base section of the Wash Tank acts a reciprocating scrubbing action of the Nylon Brushes onto the Screens.
- A “Soft Start” Brush Drive system ensures delicate handling of the Screen’s motion.
- A Water Spray system comprising of 4 Spray Tubes retaining special Fan type Water Jets, complete with a high pressure Water Pump, all pre-piped ready for Mains connection.
- The Water Spray system includes an Electric Solenoid Valve arrangement, for isolating Sprays when washing individual Screens.
- The Screen/s are supported on a stainless steel fabricated Wash Enclosure complete with Recycled Water Tank Base, having been suitably prepared to retain the following:
  - A Stainless Steel fabricated ~Trolley~ for supporting up to 5 Colour Pipes/Squeegees, inclusive of Locking Devices and Pipe connection arrangements to safely retain the Colour Pipes during the Wash Sequence.
  - A suitably prepared Traveling Carriage mechanism, retaining 4 Spray Tubes fitted with Fan type Water Jets, each driven from a High Pressure Water Pump system, inclusive of a pair of Nylon Brushes, each driven from Motor-geared units for the effective external cleaning of the Colour Pipes.

FABRIC SUCTION UNITS

For the effective removal of Lint and Dust Particles in an in-line Operation, applicable to Printing, Dyeing and other Finishing operations.

TYPE I) Single Sided Suction Units

Comprising of a rigidly fabricated enclosed Vacuum/Suction Chamber, retaining a purposely designed 200 mm. Wide sectionalized Suction Grid Surface, with adjustable ~Blanking~ arrangement to suit the varying Fabric widths, being complete with a High Flow Suction Fan for creating the required Vacuum/Suction Force for the removal of the Lint and Dust Particles from Fabrics being processed at High Speeds.

The Fabric Suction Units, having been fabricated from heavy duty Galvanized Steel, with the Vacuum/Suction Chamber having been suitably prepared to retain the following:
- A suitably prepared Traveling Carriage on a purposely designed Guide Track arrangement, inclusive of a pair of Nylon Brushes, each driven from Motor-geared units for the effective external cleaning of the Colour Pipes.
- Internal Cleaning of the Colour Pipes carried out by an independent Water Pumping System effecting a Recirculated Water ~Flushing Cycle~, followed by a Clean Water ~Wash Cycle~.
- Electrical Control Cabinet, housing all the necessary Controls and related Electrical Switch-gear, ready prepared for Mains In-coming supply.

TYPE II) Double Sided Suction Units

Comprising of a rigidly fabricated Steel Up-right Framework retaining a series of Fabric Guide/Support Rollers. Framework having been suitably prepared for supporting 2 Opposing Faced ~Single Sided~ Suction Units, with each Suction Unit being complete with related Ducting and adjustable ~Blanking~ arrangement to suit the varying Fabric widths.
**DRIER/CURING OVEN FOR PIECE PRINTED FABRICS**

**Type:** Infra-Red Heated Modules, 100 cm. & 150 cm. Wide Conveyor 600 cm. Long – 5 Modular Infra-Red Drier Units, 30 Kw.

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**DRIER UNIT - CONVEYOR BASE FRAME**

A robust Steel fabricated support Base Framework structure, 100 cm. High, suitably prepared for carrying the following:
- A 100 cm. or 150 cm. Wide PTFE coated open meshed Conveyor Belt, suitable for Temperatures of up to 190° Cent.
- Conveyor Stainless Steel support frame retaining adjustable Conveyor Guides.
- A Conveyor Drive Roller, with opposed Tensioning Roller arrangement.
- Drive to Conveyor Belt, via an AC. Inverter Variable Speed Motor-gear.
- Conveyor Base-frame, having been ready prepared for accepting the "Modular" Infra-Red Drier Units, the Exit Cooling Fan arrangement, and the Control Cabinet housing all the related Operational Switch-gear.

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**INFRA-RED DRIER/CURING UNITS.**

Each Modular Unit, retaining 5 - 1.2 Kw, Infra-Red Heaters supported within Reflector Capsules, with Set Temperatures accurately controlled by Electronic Instruments from the Operational Control Cabinet.

Modular Units, suitably Insulated with a series of Detachable Exterior Panel Sections, retaining 100 mm. thick Layers of "Rock-Wool" Insulating fiber.

The Drier/Curing Oven Unit, equipped with a suitable Exhaust Fan System, complete with adjustable Air-dusting arrangement.