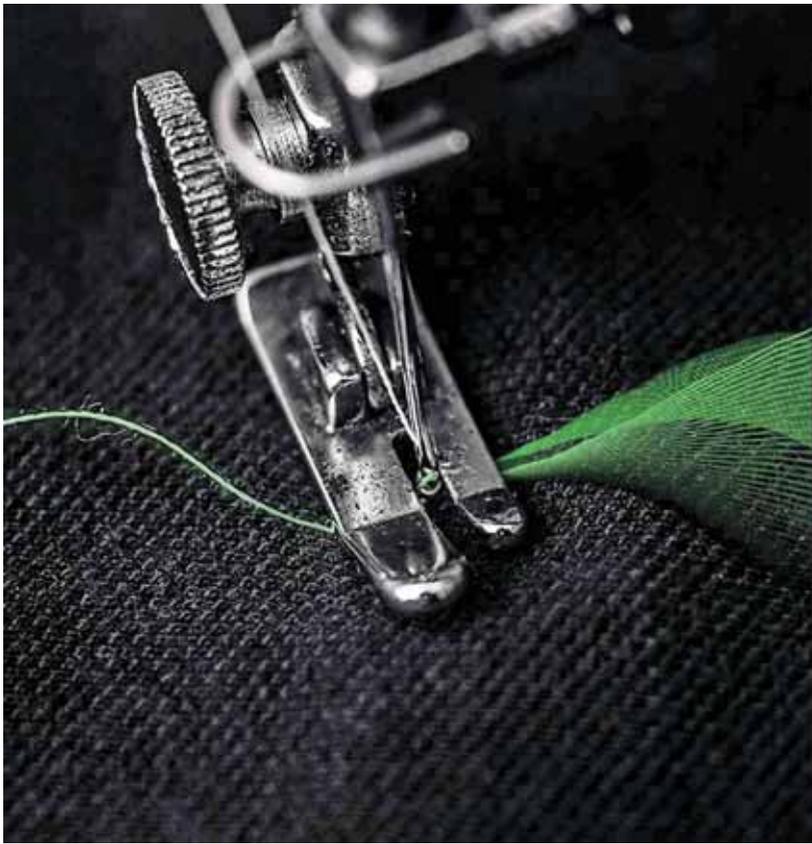


# SOME OF THE LATEST TECHNOLOGICAL DEVELOPMENTS IN APPAREL INDUSTRY



The textile and apparel industries have become a vital contributor to the Indian economy over the years. According to IMARC Group, the market will reach \$344.1 bn by 2027, growing at a CAGR of 14.8 percent between 2022 and 2027. Now to boost the industry's growth, technologies play a very important role. This is the reason, why all major apparel manufactures have acknowledged the role of applying innovative techniques to help them remain ahead in today's competitive markets. As a result, technology suppliers are striving hard to innovate and develop new technologies keeping with demands of the industry. In its continuous endeavour to provide the industry informative content, in the next few pages we are covering some of latest technologies introduced for apparel manufacturing...

## ■ Intelligent hanger system by INL

The basic concept of INA intelligent hanger system is to hang the cut pieces of the whole garment on the hanger. According to the operation and work section entered in advance, the system automatically delivers the hanger to the operator of the next operation according to the corresponding production process route, which greatly reduces the time of non-production such as handling, binding and folding. When the production staff finishes a process, they only need to press the control button, and the hanger system will automatically transfer the hanger to the next operation station. The software of the hanger system will automatically record the production data and the relevant production information of the staff and make statistics at the same time.

INA Intelligent Hanger System is an intelligent clothing production line based on intelligent and digital equipment. It uses computerized intelligent management system to cooperate with enterprise production data, management software, electronic technology, RFID radio frequency technology, and advanced mechanical transmission technology. The use of single assembly production mode, can significantly improve the production efficiency of enterprises, the product quality and the production management level, as well as reduce the labour cost and management cost of enterprises, improve the profitability of enterprises. The latest generation of INA intelligent hanger system, together with the IPMS system that independently developed by INA, can realize multi-point delivery, quick grouping and other functions to reduce the waste of time in station arrangement. Cloud data interconnection is more accurate, which can refresh the information of orders, materials and processes required for production in real time, so that all departments can control the relevant production data at any time and realize the comprehensive information updates. Help enterprises improve the quality of management.

For the upcoming GTE'22 Bengaluru, our company will display 4 systems in 1 show unit. There are EBM6R which is suitable for Undergarment, Glove, Socks, hat, Wallet, Toy, and Accessory Processing. Apart from that, ES6R which is suitable for Undergarment, Wool Fabrics, Swimsuit, Sweater, Knitwear, Shirt, Women's Wear, Kid's Wear, and Pajamas. The third system is EM6R which suitable for Women's Wear, Jeans, Uniform, Jacket, Suit, Trousers, and Bath robe. For the last system will be EC6R which suitable for Dress, Jeans, Leisure Baggy Trousers, Uniforms, Suit, and Finishing.



System Features for 6R have a lot such as humanized design, strong adaptive system easy to operate and accessible software. It also wireless communication on station terminal free to adjust the installation position, convenient for workers to operate whether standing or sitting there. Having extensive terminal management and control functions, flexible for management and quick response, enhance the time-efficiency of management. Station screen displays for staff, multi station, multi process production, efficiency, and also salary details. Switching terminal screen module such as IE analysis, target management, production list and salary information to monitoring.

A variety of different reworking methods based upon operation order, operation code and station number. Exclusive reworking operation, statistics of reworking classification and detective spot analysis functions. Direct change of style, colour and size at loading station, diminishing the dependence of the system on the computer administrator. Intercommunication between computer stations and workstation, and voice prompt. Intelligent analysis of hanger flow rate and intelligent prediction of production potential, hints of bottleneck process. Hourly production analysis and random set of time period of production analysis are included. Retaining management function of accessories at hanger station. Automatic connection of production data through bridging of assembly line and finishing line, intelligent transportation off ground also.

## ■ Tukatech new GP800 High Ply Automatic Fabric Cutter

Fashion industry technology leader, Tukatech is known for offering affordable technologies to the fashion industry. GP800 is the general purpose automatic fabric cutter with ability to cut up to 8 centimeters compressed.

The award winning features like the 'eco-power vacuum' system that guarantees considerable power savings at only 5.5 kW, the lowest in comparable industry. Installation, training, consulting, upgrades, etc. are available at reasonable cost.

Tukatech will continue to offer TUKAcut customized machines for lingerie, denim, composites, automotive, safety products and more with turnkey packages which are available. Universal fabric cutting systems are available in custom widths and heights. These machines are designed to give the ultimate performance at the lowest running cost. Though cutting productivity is at least 20 percent higher than other models on the market, the energy cost is 50 percent to 70 percent lower which helps tremendously for users in countries where energy cost is a major consideration.

Other upgradeable features produce the highest productivity per hour cutting denim with zero buffer, as well as a cut path optimizer that results in 2.2-3.6 percent fabric savings compared to other cutting machines and helps to increase productivity.

Ram Sareen, Founder of Tukatech, explains that he chose to offer automation without unaffordable service contracts, enabling even the smallest company a chance to compete.

"The GP800 model has the same quality of workmanship and performance we have been offering since 1995 with our Italian fabric cutting machine manufacturer, FK Group," explains Sareen. Tukatech was the first partner of FK Group to take FK cutting machines out of Italy in 1995, with many of the



machines installed in the US, Mexico, Canada, and India at that time are still running, producing amazing quality.

According to Sareen, the partnership with FK Group allows Tukatech to offer garment manufacturers reliable fabric cutting machines at competitive prices. "Similar to engineering companies like AMG partnering with Daimler-Benz to offer an amazingly high-performance machine to drivers who appreciate the engineering, we offer just the same with our partnership with F.K. Group," he comments.

## ■ IMB Automatic Pocket Attach Sewing Machine

IMB is based out of China. It is providing world class Customised Automatic Industrial sewing machines. Below are its some of the main products:

### MB1002D-1-S7300A Automatic pocket attach sewing machine



This unit perfectly works in fully-auto mode for shirt/knit/light fabric/ trousers pocket attach from light weight to medium weight fabric, and single line or double line sewing.

#### Highlights:

- Non-skilled operator is properly required to run this machine into consistent production.
- Quick design making system. By this IMB special-made OS, it's pretty easy to achieve quick design making & edition as we make each operation visible & visualized instead of blind setting via feelings.
- Thanks to the special transporting system driven by X,Y panasonic servo motor & both top & bottom

magnet which enables machine to be always guaranteed at a high precision sewing status which will lead to stable sewing quality.

- One machine can do both single line and double line. while you are changing machine working mode from single line to double line, you just need to install the stepping foot & inner clamp assy from accessory box, and enable the switch from OS, then machine will be ready for double line sewing mode.
- Productivity: Average production 180pcs/ 1working hour (plain shirt)

#### Technical details:

- Sewing head details: Brother \$7300A-605P
- Max running speed 2800 rpm
- Advised sewing speed: 2200-2500 rpm
- Minimum seam allowance: 1/16 inch
- Minimum edge folding margin: 5mm (valid to some specific fabric need to test by machine)
- There are 3 differenct sewing size level of this machine.
- Parts difference of size S,M,L is inner clamp, folding group mounting plate & beam, If change to other size, then need to change difference parts accordingly

### MB1008A-BR-BAS311HN-03S – Elastic Jointer

This unit perfectly works on elastic jointing operation, which requires 0 operators involved while jointing elastic.

#### Highlights:

- Auto elastic feeding, auto sewing, auto stacking, no operator involved during elastic jointing process.



- Movement by motor controlled, which means all can be adjustable by screen setting.
- Average production: 800 pcs hours production follows pattern actual stitches.

#### Technical details:

- Sewing head details: Brother BAS311HN
- Minimum elastic length 28cm, Maximum elastic width 5cm
- Elastic creaser equipped as standard
- 3- Dot marking system equipped as standard
- Power supply: 220 Volt, mono-phase 50/60 Hz
- Size and weight of the machine: 1280\*1530\*1550mm (L\*W\*H) - 352Kg

## ■ MACPI - Pressing at its best

It's the year 1961 that Macpi was born in the fashion city of Milan, Italy. It's been 61 years, and third generation into the business, that Macpi is serving the Apparel Industry with the same enthusiasm, hard work, and technological innovation and serving the customers worldwide with pressing solutions.

Even though Macpi is serving the Indian customers for more than 4 decades, they open their own branch office in Bangalore in the year 2005, with Sales professionals, Technical experts and spare parts depot for better support to Indian users. The Indian team and its expertise is also much sought after in providing support to Far East, South Asia, Golf and African region.

MACPI manufactures Ironing Presses, Laundry machinery, Heat Sealing and Bonding machinery for Stitch-free garments and accessories. Our interlocutors are the best companies in the clothing industry and the main fashion houses in the world.

The name Macpi is synonymous with high quality, high precision and high productivity in the finishing/ pressing of the garments. That's why our customers treat Macpi as a very reliable company to work with.

Some of the top line machinery for the clothing industry is as per below:

### Macpi 320 – Carousel Form Finisher - 4000 denims / 8 hrs (Jeans Finisher)

One of its kind machines, where the productivity remains almost the same even after increasing the steaming and blowing time. Electropneumatic unit for trousers finishing without pleats. Possibility of front flap and front pocket pressing.

The unit is featuring the following characteristics and is complete with:

- 7" Touch Screen TC7
- 4 steaming and blowing stations fitted on rotating plate
- Shaped plates for top (the tension is released on the trouser top sides)
- Standard shaped medium size plates fitted on the machine
- Trouser tensioning device with mechanical adjustment for pressing both babies/ short and large size men's trousers (possibility of legs sizing by changing the loading position upwards)
- Pneumatic adjustment for legs and tops tensioning by a sensor for position locking
- Adjustable steaming flow
- Device to adjust air blowing flow
- Front flap blocking device and rear belt
- Adjustable and tilting legs clamps
- Steam superheater



- Air blowing by electric fan of 2,2Kw
- Airblowing heating
- Adjustable clamps pressure
- Electronic time set-up for steaming, air blowing delay, air blowing and anticipated clamps opening
- Production counter

### Macpi 234 Jacket Finishing

Macpi is pioneer when it comes to Jacket Finishing. All the top brands in India rely on Macpi for its high quality and precision pressing, and prompt technical support. Mod. 234 - Robot for Shoulder press, Sleeve finishing, Sleeve Blocking and Nipping (4 operations) - with one operator. One of its kind machine where one machine performs 4 operations almost simultaneously, for production of approx 600 jackets/ 8 hrs.

### Machines for Bonded (Stitch-free) garments

Macpi is one of innovators for this kind of machinery and has several patents to its name for this kind of technology. All the major brands world-over rely on Macpi when it comes to bonded garments. Macpi 335 - Laydown and foldover machines, Macpi 700 - Ultrasonic Machines, Macpi 336 - Seam Sealing machines.

## ■ Richpeace Unlimited launches new 3rd Generation Standing Cutter Plotter



Richpeace Unlimited one of the exclusive CAD/ CAM Technology provider in India, serving to industry from 1996. With its headquarter in Silicon City Bangalore and technical Centers at Gurgaon, Ludhiana, Tirupur, Delhi, Mumbai, Kolkata, Jaipur and Ahmedabad the company is serving almost all apparel clusters of India with technology, service and training as well.

Richpeace Unlimited is launching 3rd generation standing cutter plotter under the brand name of ORIGIN CAD, which is Made for India with the localized spares. Machine comes with the special technology features like "Wifi Enabled Machine, Front Loading Technique, Dual Front Loading Feature – One For The Marker Paper And One For The Brown Paper Cutting"

"With more than 200 Machines Installation of 3rd Generation Standing Cutter Plotter all over India, Richpeace Unlimited is fully equipped to cater to distinct requirements of all clients.

Industry needs trained pattern masters and there is scarcity of the trained pattern masters in the industry. To serve to industry we started training interested talent for pattern training manual as well as computerized CAD at our studio across India. New innovative program has been introduced to train hardware trouble shooting to all the Pattern Masters, Cad Operators so that the machine down time can be reduced drastically" say Rajesh Rao promoter of Richpeace Unlimited.

The company has a team of industry experts who can look after specific queries of clients in terms of pattern development, grading and Consumption Calculations. "Our Studio has facilities for Plotting and Cutting Patterns on Brown Paper and Printing Markers on White Paper so anyone from the manufacturing side can take its full advantage. Also to cater to new generation garment designers Richpeace Unlimited started sampling unit as well. Come with the measurement chart and go out with the perfect fit sample, along with tech pack." added Rajesh Rao.

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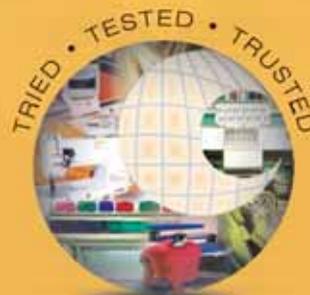
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## ■ Brother High Speed Overlock and Safety Stitch Sewing Machines



Brother International (India) Pvt. Ltd. Incorporated in 2006 operates with fully integrated sales, marketing and service capabilities. Brother delivers latest information about Brother's industrial sewing

machine, automatic machine, and valuable data collected from Brother's IoT system, etc. Below are the newest sewing machines from Brother.

### FB-N21A - High Speed Overlock Sewing Machine

#### Features:

- Electric Presser Foot Lifter: Presser foot is automatically lifted/dropped after sensor detects material. It increases productivity
- Automatic Tape Cutter: A thread chain is automatically cut after sensor detects material. It increases operational efficiency
- Built-in Direct Drive Motor: Powerful and electricity save
- Lint Collector (Option): A thread chain and/or material after cut is sucked by air suction

### FB-N31A - High Speed Safety Stitch Sewing Machine

#### Features:

- Electric Presser Foot Lifter: Presser foot is automatically lifted/dropped after sensor detects material. It increases productivity
- Built-in Direct Drive Motor: Powerful and electricity save
- Automatic Tape Cutter: A thread chain is automatically cut after sensor detects material. It increases operational efficiency
- Lint Collector (Option): A thread chain and/or material after cut is sucked by air suction

## ■ JACK Overlock machines with Trimmer

Jack industrial sewing machine company is an undisputed world leader in the sewing category and equipment. Continuously technology, modern solutions, high quality materials and different degrees of work automation in continuous evolution translate into great popularity of Jack devices also for ease of use.

C2, the first single trimming overlock machine, with automatic thread trimming function front and back. It simplifies sewing gestures, improves work efficiency and saves sewing costs. Through this product, the computerization of the direct drive machine is further accelerated.

C2 Birth Background: Based on market insight, we found that it's very inconvenient for unskilled workers to take the fabric to the front end for trimming. The work efficiency is low, and there is a lot of waste of

stitching. Besides, the equipment is unstable and small problems emerge in an endless stream, which delays the work.

#### C2 Core Value

1. Automatic thread trimming technology. Every time trimming, more than 1.2 meters of stitches can be saved. The overall annual savings can reach \$270.
2. Double light sensors, realize automatic thread trimming function, long-piece fabric, sweeping and other processes. The shortest thread trimming length can reach 10mm.
3. The maximum speed is increased from 5500 rpm/min to 6000rpm/min, increased by 9.1%. which greatly improves worker's efficiency by more than 50%.

Jack is always devoted to make it easy to produce clothes all over the world, which is the aim of Jack



and also it's driving force for continuous innovation. And it's the reason that C2 come into being. C2 is scheduled to be released in India after Diwali. Welcome to continue to pay attention to our NEW PRODUCT---C2.

## ■ Fab Pro I by Orange O Tec



Orange O Tec Pvt Ltd. - A Surat based leading digital solutions provider with digital and auxiliary machinery for various types of industries. Augmenting the global expertise of the digital era, they provide all kind of digital solutions that can help industries keep pace with the increasing automation. They provide experts providing specialized services and machinery to our valued customers most efficiently and reliably. Orange O Tec new advanced industrial design and a highly efficient Data Processing System come together to give you outstanding printing speed, Precision on a reliable and stable machine. The Cost-Effective features enhance ROI and generate better profits and returns.

#### Advantages

- Accurate printing: Variable Ink Droplet Technology gives more Accurate Control of Ink Droplet Size.

- Monitored negative pressure system: Automatic Negative Pressure System Management - Pressure Adjusted and Monitored Constantly
- Printhead anti-scratch system: An intelligent printhead protection system minimizes accidental damage to printheads by the fabric and prolongs use
- Durable and stable ink supply system: Diaphragm Pump Ink Supply System has proven to be more durable and stable, making it the best choice for Ink Supply
- Industrial grade output: Self Developed Hardware and Software Systems, with high-quality mechanical designs, achieve capacities as high as 70 Lm/hr
- Large flow, high-speed degassing device: Continuous printing is assured by in-time removal of air bubbles in the ink
- Pure colour: Get Pure Colours and Smooth Output with Kyocera Print Heads
- Smart operation interface: The intelligent operation interface works on a one-operator multi-machine management system. The orders can be automatically stored, one-button adjusted, and retrieved at any time
- Continuous unwinding/rewinding control technology with adjustable tension
- The winding speed can be automatically adjusted with stepping width, to ensure stepping precision.
- Cleaning and moisturizing systems: The design of these systems reduces wear and tear of the printheads, extends use, and maintains the stable operations of the machines.

## ■ Astor launched ‘Easy Plan’ a complete and versatile Cutting Room Solution

Astor is a pioneer in the area of CAD solutions for the apparel and sewn goods industry. It is the first and only company in this space from India. The gamut of solutions covered in the CAD includes the following:

- A most user-friendly Pattern design module that best suits the traditional pattern makers in the sub-continent who may not come with prior computer background
- A unique grading tool where measurements for all sizes can be copied from an XL sheet and applied on patterns on the design board to complete grading in seconds
- A best-in-class automatic marker making module that guarantees fabric savings even as it completes markers in a few minutes
- A patented (Indian patent) costing-aid tool where patterns for arrange of styles can be generated in an instant by just entering measurements

These features have dramatically reduced turnaround times and increased productivity in the Sample/CAD rooms at customer sites across India, Indonesia, Bangladesh, Turkey, Africa etc.

Astor has developed a unique proprietary solution for custom-made solution for delivering perfect fitting garments (trousers, initially) that opens the door for mass-customisation. Recently, as part of efforts to orient its solutions towards making apparel units Industry 4.0 ready, Astor launched ‘Easy Plan’ a Complete and versatile Cutting Room Solution that straddles all areas of Cutting room activities from planning to execution. The areas covered include modules that cover:

Cut-Plan, Marker Plan, Fabric Roll allocation, Generating Digital lay slips, Assigning Spreading and cutting jobs to tables, Real time tracking of Spreading and cutting jobs, Automatic bundle cards and serial numbers generation, Tracking fabric usage and end bits management, Real time reporting, Traceability – each part or garment can be traced back to the table it was cut, to the date, shift and time it was cut and to the operator/team, Automatic roll wise audit and order closure reports.

The key features of this Digital Cutting Room Management system are:

- Model-driven MES approach makes the factory Industry-4 ready & transforms your cutting room into a Smart, Digital and Paperless center
- Reduce production costs by increasing throughput



- Tracking performance and make best use of all cutting room resources – Operators, Tables, Fabric and Machines
- Reduce scrap and rework – consistently deliver quality products
- Real-time visibility that helps identify the weakest links in the process and use Overall Equipment Effectiveness (OEE) KPI monitoring to manage them back to full operating potential

The tablet based push system completely automates Cutting rooms which have traditionally posed serious challenges for management. As a result, we have been successful in implementing this with leading apparel houses in India and abroad such as Ambattur Clothing, Shahi Exports and the like . The key benefits demonstrated include:

- Increase in equipment uptime & increased feeding into production.
- Dramatic increase in Spreading and cutting efficiency
- Labour cost saving – due to automation of manual processes, digitalization and real-time reporting
- Fabric savings due to superior fabric roll allocation and better material utilization
- Management gets all info in real time – complete visibility, transparency, traceability and accountability. “One truth” is presented across all users

## ■ Unix’s new Direct Cotton Digital and Sublimation Textile Printers

Unix Stitchmachines Pvt. Ltd. started its operations in 2005 and has offices in Surat and Ahmedabad. UNIX is one of the most innovative and creative companies emerging in the computer embroidery industry. The company has positioned itself as a pioneer technology supplier in the embroidery industry with a distinctive identity. An outstanding reputation for customer service coupled with a management commitment to quality has made UNIX the preferred supplier for quality embroidery machines.

The wait is over UNIX introducing a brand new Direct Cotton Printer UN-1882E, which prints directly on cotton. The advantages of this printer are that it has Automatic Belt Guiding, Automatic Ink Alarming system, Online-belt washing, and Advanced Head Maintenance.

Features:

- The printer has 6/8 printheads of EPSON I3200-A1
- It has integrated the technology of intelligent capping station design which is more easy to do calibrate
- For best industrial heavy use it has imported quality belt which makes sure that the life of the belt is longer
- For smart industries it has smart feeding media system which is used for more tension or other materials
- The double import THK guide rail is used which makes sure that the carriage moves more smoothly and at the same time reduces the noise



### New Sublimation Textile Printer

The UN-6198 Digital Sublimation Textile Printer, which can reach the speed up to 310 m<sup>2</sup>/h. this printer comes with 8 Epson I3200-A1 printheads which ensures continuous and stable printing so that the production output is maximum. The resolution of the print is of best quality that is of 360\*1200 / 360\*1800 / 720\*1200 / 720\*1800 (DPI). The UN-6198 printer prints on to 1900mm width.

The technical features of the printer are Extra drying device is used for the drying method, the method for ink supply is Siphon Positive Pressure Ink Supply, for moisturizing the Head Cleaning and Moisturize method is used, the designs are being printed on transfer paper. The speed of the printer is, in 2 pass it prints up to 310 m<sup>2</sup>/h, in 4 pass 164 m<sup>2</sup>/h, and in 6 pass it prints up to 100 m<sup>2</sup>/h. High speed gigabit transmission interface is used, which can meet the demand of high resolution file transmission and guarantees the stability.

It adopts updated integrated capping station module. The dislocated carriage base plate is precision machined, which makes head position adjustment is

more convenient. The printer is equipped with constant taking-up system with imported motor, which ensures that media taking-up tension is constant and stable from beginning to the end, excellent taking-up effect can be achieved. Name brand core parts with high quality, THK guide, NSK bearing, IGUS chain, LEADSHINE servo motor, etc. which composes stable printing system and guarantees excellent outputs.

The computer requirements for this printer is Windows 7 with 64bits, Windows 8 with 64bits, and Windows 10 with 64bits. RIP software’s such as Maintop 6.0 (standard equipped), Photoprint 19, Onyx 19, and neoStampa is used. It also has an additional feature where the printer alarms when the level of ink is low. The operating environment is 18-30° C, and 35-65% Humidity. The dimensions are: Printer size 3710\*1500\*1940mm, and Packing size 3900\*1340\*2040mm.



The required power supply for the printer is 210-230V, 50/60Hz, 16A. The printers requires the power of 1500W, and the power required for the dryer is maximum 9000W.

## Future Fusing Technologies by Master Enterprises

Master Enterprises, established in the year 2000. They are the manufacturer, wholesaler, trader, retailer, and service provider of fusing machines, fusing machine belts, conveyor belts, digital thermometers, and many more. In addition, they also provide prompt and reliable repair and maintenance services for the fusing machines manufactured by them. Being a trader, we trade our products under the brand names of Rollax, QWB, Resin, and many more. We are a manufacturer of fusing machines and feed on conveyors like ME 250, ME 450, FF 600LF & FF900LF Fusing Machines with feed on conveyor attachment. We offer service and calibration for all types of fusing machines. The most recent future-fusing innovations from Master Enterprises.

### Feed on Conveyor

#### Features:

- Imported motor used for low power and long durability
- Belt made on firm stability technology
- Long life with low maintenance
- Increase your production by 50% to 70% more



- Safe mode prevents mistakes
- Emergency cut off technology
- Additional rollers provided for lining ribbons
- Portable glass platform for small fusing

### FF-600LF/900LF - Straight Liner Fusing Press

#### Features:

- Big diameter pressure roller is equipped, increase pressure balance, fusing quality, durability.
- New upper heater increase heating efficiency, decrease heat loss

- By select heater control switch, the temperature of the upper and lower, front and rear heaters can be easily controlled
- The seamless belt has been adopted to increase the durability of the belt
- The air pressure system adopted to make simple adjustment and correct pressure
- The puckering prevention roller is equipped
- The position of the roller can be adjusted easily to apply for any material
- Future Fusing is equipped with rotary strip off device as standard



## Plotter Cutting Machine by Mimaki

Mimaki is a leading manufacturer of wide-format inkjet printers, textile printers cutting plotters and 3D printers for the sign/graphics, industrial and textile/apparel markets. Mimaki develops the complete product range for each group; hardware, software and the associated consumable items, such as inks and cutting blades. The company excels in offering innovative, high quality and high reliability products, based upon its aqueous, latex, solvent and UV-curable inkjet technology. The distributor of this machine in India is Green Printing Solution, Noida.

### CG-SRIII Series (CG-60/100/130SRIII)

#### Main Features

- A maximum cutting pressure of 500g for a wider range of materials
- Up to 2 times the curve cutting speed increases productivity
- Event Notification function for remote monitoring - Plot start/end, error/warning message
- Continuous Crop Mark Detection for precise stickers and seals.



- New Segment Compensation, which detects intermediate crop marks, enables accurate contour cutting of long-length prints
- Upgrade of firmware can be done quickly and easily by user.
- Ethernet connection for LAN use as well as USB2.0 and RS-232C

#### Other Functions

- Division Cut Function: Division cut of data larger than sheet width
- Overcut Function: Minimize uncut portions by overlapping the starting and ending point
- Larger LCD: 3-inch LCD (liquid crystal display) ensures easy operation
- Ethernet Connection: Network control via integration into office LAN

## Stretch and Recovery Tester (Moveable Type) by Amith Garment



Amith Garment Services is in the business of quality control and testing, measuring, inspection of instruments and equipment and serving textile industry in India and abroad since more than twenty years. Its products are working all over the world helping textile manufacturers to ensure their product quality.

### Stretch and Recovery Tester – 6Stations, moveable type

Purpose: To measure stretch percentage and recovery properties of woven/knitted and lycra fabrics/narrow elastic tapes.

#### Features:

- Static growth tester consists of six numbers of clamp arrangements and three numbers of clamps to hold the tested fabric by its sides

- The board can move from one place to another place with help of trolley in built
- Test weight shall be rectangular in shape and its weight as per standards, including the weight of hook required for hanging the test sample
- Static load is applied for a specific time and released as per test standards
- Dead Weight as per test standard supplied
- Operating Manual with test procedure & Calculation given



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## ■ The Energy Efficient Dryer and Exposure Unit by Anatol

In 1982, Anatol Topolewski founded Anatol Automation Incorporated as a company specializing in high-speed automated assembly systems. In 2003, Anatol Automation changed course to focus exclusively on screen printing equipment and became Anatol Equipment Manufacturing Co. We've made great strides in the development of screen printing equipment. Anatol currently hold patents for a number of advancements that make our screen printing machines some of the safest and most user-friendly on the market. The distributor for these Anatol machines in India is Green Printing Solution, Noida.

### SOLUTIONS - High Efficiency Electric Dryer

When gas is not an option, Anatol electric screen printing conveyor dryers are the perfect Solution. The Solutions Series dryers are ideal for t-shirt and textile printers looking for an efficient and affordable curing unit. They feature more ceramic heating panels than similar dryers for even heat throughout the chamber. The Solutions dryers feature the same double-wall construction as Anatol's gas dryers, re-enforced with high-efficiency thermal insulation. Solutions Series electric dryers offer programmable temperature



controls with automatic cool-down. Solutions electric dryers are available in six configurations, with four basic models, from 24" belts with 4' of heat up to 60" belts with 10' of heat.

### AURORA UV Led Exposure Unit

The Aurora UV LED exposure unit exposes screens quickly, evenly and efficiently. It exposes screens in seconds while giving you sharp detail and high resolution half-tones, with even exposure across the whole screen. Featuring long-lasting LEDs designed to last 50,000 hours, the Aurora UV LED exposure unit requires no startup or cool down time, keeps temperatures low and is less expensive to maintain than metal halide units. Let the Aurora shorten your



setup times and lower your energy costs today. This exposure unit is designed for one-touch operation, from the 7.5" touchscreen controls and ability to save and recall up to 8 job settings, to the flip-latch blanket locks. The Aurora exposure unit is available with a maximum screen size of 23" x 33" or 26" x 36" (for single screens), or 46" x 33" or 52" x 36" (exposes two screens at the same time).

## ■ Non-Curable Water-based Inks by Shin Nakamura Japan



Shin Nakamura Chemical manufactures poly functional monomers for use in printing, packaging, containers, and electronics industries. The distributor for these inks in India is Green Printing Solution, Noida.

Screen Printing Inks Solutions for Sports & polyester Fabric (No bleeding and Dye Migration)

### Non-Curable Water-based Inks

- Non curing Inks for Printing Polyester Fabric with Sports brand Compliant for Direct Printing.
- Inks do not require curing
- Excellent solution for DYE Migration on Polyester and Blend fabrics
- No Curing Required
- Extremely excellent wash-fastness@ 60 degree for 60 minutes
- Suitable for Sports

Semi PU resins inks, Best available solution for Printing on sports and Polyester Garments. The inks are self curing and no need for oven drying. However we have excellent Dye Blocker for mass production in case you choose to go for Dying.

## ■ High Speed Auto Trimmer Lockstitch Machine by Zoje

ZOJE, founded in 1994, focusing on technology leading and industrial innovation, the company has advanced automation equipment for casting, casing processing, coating and assembly. It has Provincial research Institute and National high-tech enterprise. ZOJE's international equipment along with advanced science and technology compacted into an excellent quality and formed a unique industrial cluster. The company's products have complete categories and excellent quality. It has high brand awareness and reputation in the international market, and is deeply favoured by users at home and abroad! ZOJE is committed to building a world-class smart sewing brand, providing global customers with higher value smart sewing solutions and making the world fall in love with ZOJE smart sewing! We are covering Zoje's latest machine.

### A6000-D High Speed Auto Trimmer Lockstitch Machine

#### Features:

- Auto thread Trimmer, increase efficiency
- Energy saving and high efficiency
- Simple direct drive, separate motor



- Stable, efficient and cost effective
- Less noise and low vibration
- New appearance

## ■ First model released by **JUKI-PEGASUS** collaboration and joint development

Juki Corporation (Akira Kiyohara, Chairman & CEO located at Tama-shi, Tokyo, Japan) and Pegasus Sewing Machine Mfg Co Ltd (Shigemi Mima, President & CEO located at Osaka-Shi, Osaka, Japan) have entered into a basic transaction agreement on April 26, 2021 to move forward with a business collaboration in the sales and development fields and announce to release the first model by joint development “Differential Lower Feed Safety Stitch Machines and Overlock Machines with integrated Control box M900/DJ series” in April 2022.

The machines are supplied by both companies as part of the “JUKI Smart Solutions” product lineup. M900/DJ series are compact sewing machines integrating with direct-drive motor, control box and operation panel. Pneumatic lint collector (LC) and presser foot lifter (PL) and operator friendly LED light is provided as standard. The machine achieves a practical maximum sewing speed of 7,000sti/min.

M900/DJ2x can automatically set thread trimming function by detecting the edge of material with sensor. With safety function to prevent false operation, operators are prevented from mistakenly cutting material and getting injured by false operation.



### **Safety stitch machines and Overlock machines are lined up in M900/DJ series**

Features:

- Automatic thread trimmer with a material sensor: The M900/DJ Series of sewing machine is provided as standard with the side cutter with 2-point material sensor (DJ21,22) and the Chain-off the thread trimming device with a 3-point material sensor (DJ23). Under the full-automatic mode, the material sensor detects the presence / absence of the material to prevent the operator from erroneously operates the side cutter etc. In addition to the full-automatic mode, the manual mode and the semi-automatic mode can be selected.

- The cover sensor unit and cover micro switch unit: The cover sensor unit and cover microswitch unit that detect 1, 2 and 3 (shown below) are closed tightly during sewing, thereby preventing the sewing machine from starting up unexpectedly.
- Operation panel and control box are integrated with the machine head
- The energy-saving and highly efficient servomotor is installed in the direct-drive style. The sewing machine quick lystarts up and stops with increased accuracy, thereby demonstrating improved responsiveness.
- USB port: The USB port is standard on the control panel and you can easily upgrade the software. The M900/DJ has another one USB port for charging a smartphone, etc.
- For the LED light, the improved toning function with two additional colors (white / light bulb color) is provided. Illuminance of the LED light is adjustable in five levels. This LED light helps reduce the operator’s eye fatigue who is engaged in sewing work for a long time.

## ■ The next step up in digital textile printing by **Magnolia**

The Magnolia from SPGPrints offers unsurpassed quality and value to textile printers who are taking the first step into digital production. It also offers a step up to high-performance, high-quality production for printers who wish to develop their digital capabilities further. Magnolia uses several printing modes and 36 FUJIFILM Dimatix Samba print heads with a resolution of 1200 dpi. Apart from ease, accuracy and productivity, Magnolia offers flexibility and may be used with Reactive, Acid or Sublimation inks and different drying methods.

### **Save Time, Space and Money**

Digital printing has many benefits. It makes short-run, fast-turnaround jobs affordable for customers and profitable for printers. It eliminates screen preparation time and makes more time available for printing full production runs on screen printing lines. With an annual output up to 2 million metres, Magnolia is both a workhorse and a sprinter.

### **Multitude of Applications**

Open creative possibilities with the wide range of substrates that can be printed by Magnolia: sublimation papers, natural fibres, polyester, lycra, wool, silk and even polyesters. Blotches, fine lines, geometric designs and intense colours can all be printed thanks to variable ink drop technology.

### **Engineered for Performance – Enabling Productivity**

Uninterrupted printing of multiple jobs on the same substrate  
Fast, cost-effective production of multiple variations for sample and production runs  
Print placement for accurate replication of designs no matter what the garment size  
Reduced ownership costs through the SPGPrints Print Head Program for full control of print head performance and costs

The digital printing power of Magnolia can make your whole workflow more efficient by eliminating bottle-necks and improving the capacity of your screen lines while meeting customer demands for smaller, urgent jobs.

### **Full control in one integrated system**

From infeed to outfeed Magnolia is designed to allow maximum freedom in choice of fabrics, from traditional cotton and viscose to the most modern polyester fabrics. Magnolia is a complete system, designed and engineered to make a complete solution. All elements are made to work together: print heads, inks, substrate conveyor, and dryer. However, within this system, there are options for ink (Reactive, Acid or Sublimation), and drying (gas or electric). With Magnolia from SPGPrints, configuring the right combination for your requirements is possible



without compromising results.

### **End-to-end support of your business**

With SPGPrints you can access decades of experience in textile printing, right from the source. Our application support specialists are dedicated to help you explore new possibilities and will share everything there is to know to keep your Magnolia in perfect condition. And when outstanding results matter, rely on SPGPrints’ ink technology. Our performance inks are specially formulated to deliver optimum performance. In-house development and production allow us to offer inks with unrivalled quality and runnability that add value to your business. Our inks guarantee unattended printing without nozzle blockages or print head failures while adhering to the highest standards and legislation on sustainability.

### **End-to-end control for quality output**

The right balance of technology incorporated in Magnolia, internationally recognized SPGPrints inks and our full support ensures end-to-end control for consistent high-quality output. Whereas Magnolia is built to control high speed and high quality in two different printing widths, Magnolia is a great option for entering the mid-high segment in digital printing. The combination of FUJIFILM Dimatix Samba print heads and SPGPrints specially formulated performance inks ensures excellent runnability and longer print head lifetime. Most importantly, you can count on strong and vivid colours at the lowest possible ink consumption.