

spgprints®



TEAK

# The latest-generation Pegasus printing system

Printing tomorrow.

# A new-generation rotary screen textile printing system

## Main characteristics

- Excellent quality
- Proven technology complemented by innovative developments
- Servo-driven by A-brand components
- Printing width 1.62, 1.85, 2.25 & 2.45 meters
- Remote service and option to expand service level support
- Closed bearing and blade or roller squeegee system
- Universal repeat 640, 725, 819, 914, 1018 mm

The left and right side flexibility of Teak offers all the functionalities requested by our most demanding customers. The technology used is based on more than 70 years of experience in rotary screen printing, and complemented by sophisticated components and production technologies. The improved price-performance ratio, combined with the service and stability of the SPGPrints organization, is the perfect solution for high-quality and reliable printing.

## Closed bearing

Teak is a closed bearing machine. Different kinds of squeegee systems can be mounted, like blade or roller depending on customer demands. The flexibility, combined with SPGPrints' new state-of-the-art servo-based control system and the possibility of remote diagnostics, is setting new standards in rotary screen printing.

What is unique for the Teak is that both squeegee types can be combined in a single position. This gives the utmost printing flexibility, and is ideal for optimizing effects like half tones, fine lines and blotches.

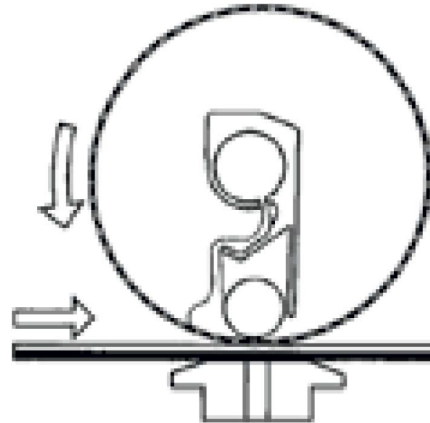
## Permanent magnet beams

Permanent magnet beams are the most stable type of magnet beams. Their variable magnetic force is set by adjusting the height of the inner beam with the permanent magnets. The magnets do not require electricity to build up their magnetic force, which means no heat generation.

It also eliminates beam deformation, resulting in superior printing quality.

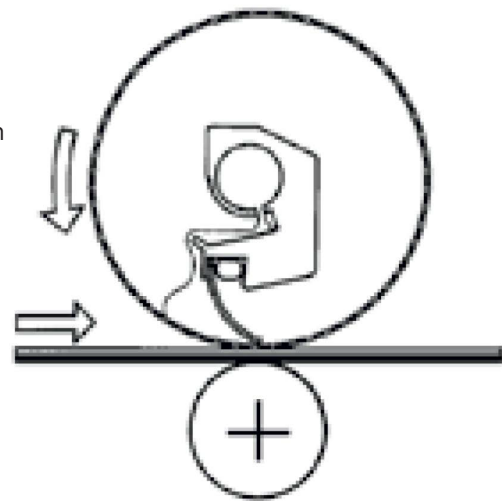
## Magnet / Roller squeegee

The magnet roller squeegee is mainly used for wider-width printing. The amount of paste is determined by the roll diameter and the magnetic force, which is adjustable for each individual printing position.



## Blade squeegee

The blade squeegee is a sophisticated squeegee system which can be used in the widest range of applications for halftones, fine lines and blotches. The amount of paste is determined by the squeegee blade in combination with the angle, and can be altered during production.



The machine is equipped with a servo-motor for each position to improve accuracy still further. Each position can be adjusted individually, and can be set high or low. This ensures the highest printing quality, combined with an excellent efficiency and therefore minimum waste. Lateral and diagonal repeat can be adjusted electronically as well. All electronic communication in the machine runs through a profinet communication system, that reduces the amount of cabling in the machine and therefore also reduces the chances of malfunction.

To improve the ease of operation, every printing position is equipped with a touch panel on both sides of the machine, so repeat settings, squeegee/magnet force and colour pump settings can be adjusted with ease. The main control panel is also touch-operated, and is connected to PLC & motion controller. The user interface of the touch panel is self-explanatory, and can be operated without extensive training. Not only various recipes can be stored, but all relevant system information can be retrieved too. If required, the machine can be accessed remotely.



## In-feed & substrate guiding systems

Several in-feed and substrate guiding systems are available; for use with everything from simple woven substrates to more complicated textiles like knits which contain Lycra.

## Dust extraction

We supply a variety of systems to remove dust or lint from the substrate, therefore ensuring optimum printing quality. You can choose the dust extraction system best suited to the specific requirements of your substrates.

## Gluing device

The gluing device has a fully automatic thickness control by airflow squeegee to maintain the correct glue thickness, independent of the speed.

## Blanket washer (Standard-Sponge type)

Efficient blanket washing systems with 'Sponge' or 'Brush roller' mechanism can be chosen, depending upon your application. The standard is Sponge type.

## Universal repeat - New feature development

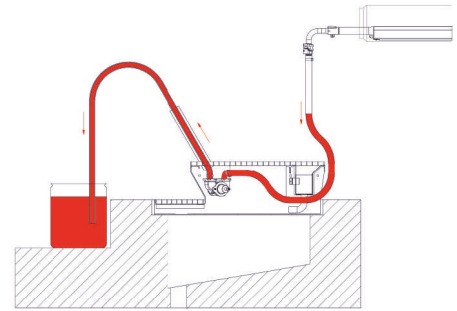
- Reduction in machine cost to the customer
- Single screen head for all repeat size printing, Less parts, Less maintenance
- Standardization, Less inventory both at our and customer end.
- Cost-effective or economical solution where customer require higher repeats.
- Can be installed on earlier supplied machines.
- Less variety of spare part requirement.



# Options

## Eco-paste system

This unique paste return system in combination with rubber ball and reversible color pumps, takes out maximum amount of color paste left in the squeegee pipe. While feeding color, rubber ball is pushed on opposite side of squeegee pipe and during paste reversal operation, the ball is sucked towards the color pump side, to ensure dragging out max amount of paste from squeegee pipe.



## Thermoplast adhesive system

The thermoplast adhesive includes a special speed-sensitive infra-red device to heat the blanket and thermoplast evenly. For an optimum gluing result the substrate is preheated on the curved heated plate. In this way, synthetic substrates can be printed with the highest accuracy. All tools for applying and removing the thermoplast are supplied as standard.

## Pump water savings package

The pumps and tubes are initially washed by means of recycled water and then rinsed with fresh water. This fresh water will again be re-used as recycled water. This saves considerable amounts of fresh water, which lessens the environmental impact and also lowers your operational costs.

## Blanket-washer - brush type

The blanket washer is a feature that consists a scraping squeegee with a spray pipe, two rotating brushes, a spray pipe for clean water and dry scraping squeegees. Both sides of the squeegee can be used, which doubles their effective lifespan. The blanket washer can easily be removed from under the printing machine to facilitate cleaning.

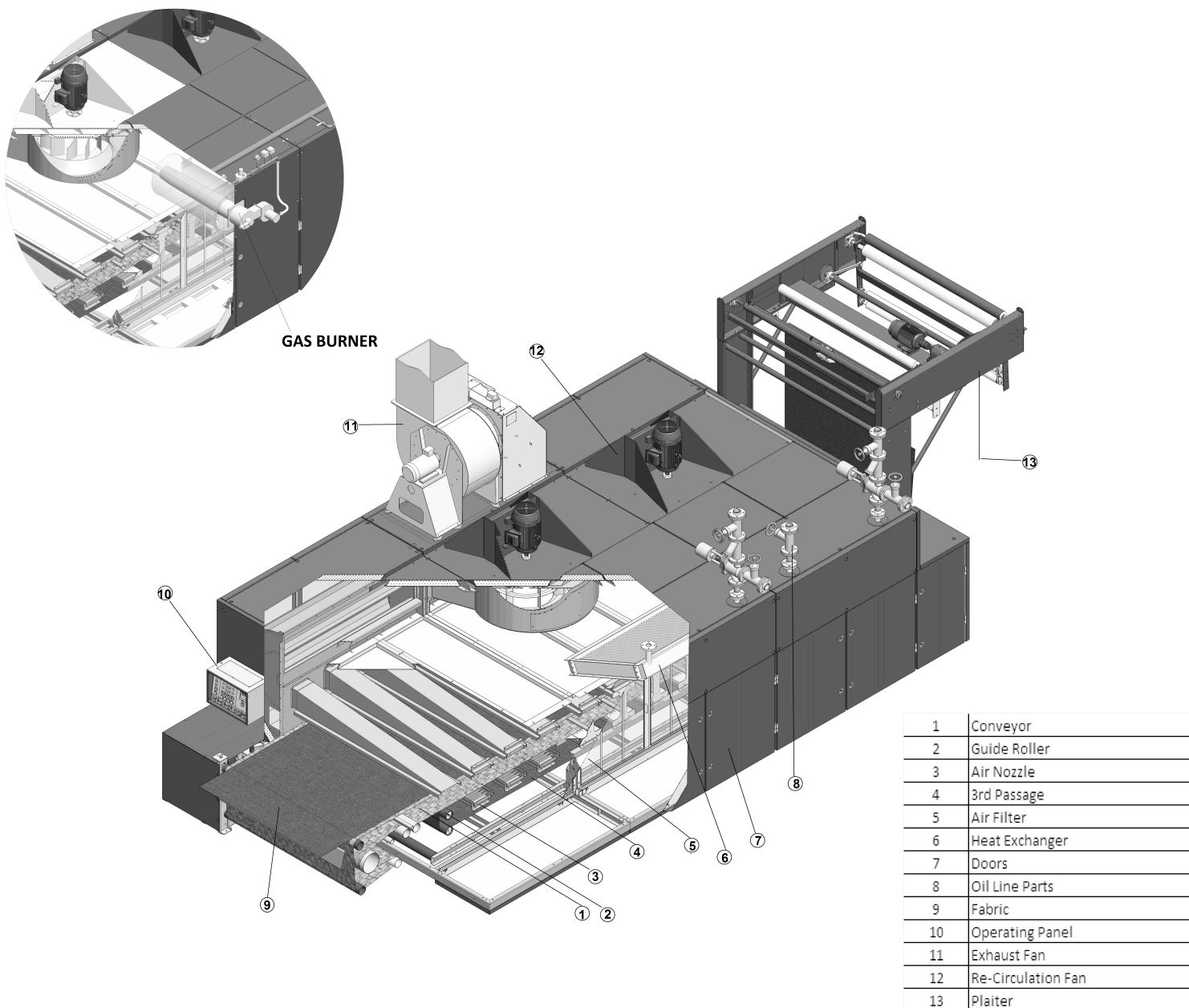
## Blanket water savings package

You can drastically reduce the amount of water required when using the blanket water saving package. It consists of a pump unit with filter that allows water in the blanket washer to be recycled. Clean water is only required for rinsing. This also makes a significant contribution to a better environment while lowering your operating costs.

# Apollo II Dryer.

The SPGPrints' Dryer Apollo II is a high-efficiency drying unit that enables rapid and uniform drying of cloth. Its extremely economical performance ensures that only a minimal amount of energy is consumed for drying, and its compact design occupies minimal floor space. The optimum amount of air is extracted to achieve maximum evaporation and steady outflow across the full width of the dryer, while keeping power consumption low. In addition, compatibility with several fuel types allow Apollo II to be integrated easily into your existing facilities. Being more compact also means there is less cloth inside the Dryer, so inspection and adjustments can take place at an earlier stage, increasing process efficiency.

The Apollo II is suitable for drying diverse type of substrates. It can be heated using thermal oil, steam or directly, using gas, as per suitability. The high turndown ratio allows quick heating, while enabling operations at a very low energy level for substrates sensitive to heat.



1	Conveyor
2	Guide Roller
3	Air Nozzle
4	3rd Passage
5	Air Filter
6	Heat Exchanger
7	Doors
8	Oil Line Parts
9	Fabric
10	Operating Panel
11	Exhaust Fan
12	Re-circulation Fan
13	Plaiter

# Technical Specification

Features	Description
Model width	1620, 1850, 2250 & 2450 mm
Number of colour	Upto 24
Speed	Upto 80 meters per minute
Infeed	Knit or woven; from big batch or trolley
Screen Drive	Individual drive
Printing Heads	Closed, lifetime-lubricated bearings
Squeegee System	Combination of Blade & Roller squeegee
Operating and colour side	Left & Right side flexibility
Gluing System	Wet (with airflow squeegee blade) & thermoplastic gluing as option
Repeat possibility	Universal repeat from 640-725-819-914-1018 mm
Colour Pumps	Pneumatic/ SB-7 reversible colour pumps
Dryer	Apollo-II Dryer with 2, 3, 4 & 5 sections

## Unique SPGPrints screens, lacquers & digital engraving

SPGPrints is a one-stop solution for textile printing as it offers complete program of RandomScreen, OrtaScreen, NovaScreen, PentaScreen, StandardScreen, SpecialScreen, endrings, lacquers, and chemicals that comply to ultimate quality specifications and care for the environment. We also offer a wide range of additional products for both conventional and digital engraving methods.

In addition to an exceptional screen and conventional engraving program, we are also renowned as the leading partner for digital engraving. Our laser engraving systems have been a feature of the textile industry for over 25 years, offering a faster, more efficient, high-quality, and eco-friendly approach to imaging. SPGPrints is a reliable partner in business, offering you not only a one-stop-shop but also global application support as well as local presence and involvement/commitment.



Printing tomorrow.

## About SPGPrints

Throughout our unique history, SPGPrints developed into an internationally acknowledged authority in textile printing, dedicated to bringing colour to the world. In recent years, our unique rotary screen printing concept allowed us to move beyond textile printing and offer solutions for labels, banknotes, COVID-19 testing strips, and more. And while still a distinct leader in rotary printing, we have also become a pioneer and a key player in the market for digital printing. In 1991 we were the first in the industry to launch a digital textile printer. Not much later we started producing ink for all leading digital technologies. Over the years, we have been awarded over 300 patents and we have built an international network in more than 100 countries. These days our focus on innovation is as strong as ever with taking care of our planet as a constant priority. We take pride in putting our customers first, letting their ambitions inspire us, and deploying our expertise, resources and network to help them to achieve their goals. Our solutions are designed to empower customers worldwide in all stages of the printing process; from pre-press to printing, from textile to industrial - and beyond. That is the global impact of a global player.

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