

spgprints®



PALM

The legacy of RD IV, sharper prints

Printing tomorrow.

PALM is the new techno enhanced incarnation of RD 8 , with superior quality and a host of enhanced functionalities.

- Permanent Magnets
- AC Servo drive and PLC
- Energy saving of up to 30% compared to DC drive
- Proven Closed Bearing system
- Choice of Blade or Roller Squeegee system
- Corrosion resistant SS covers and fasteners
- Prints on all fabrics from light synthetics to heavy cotton fabrics

Fine Blend of Art and Science

Modern looks, coupled with a host of advantages makes **PALM, one of the best Rotary Screen Printing Machine.**

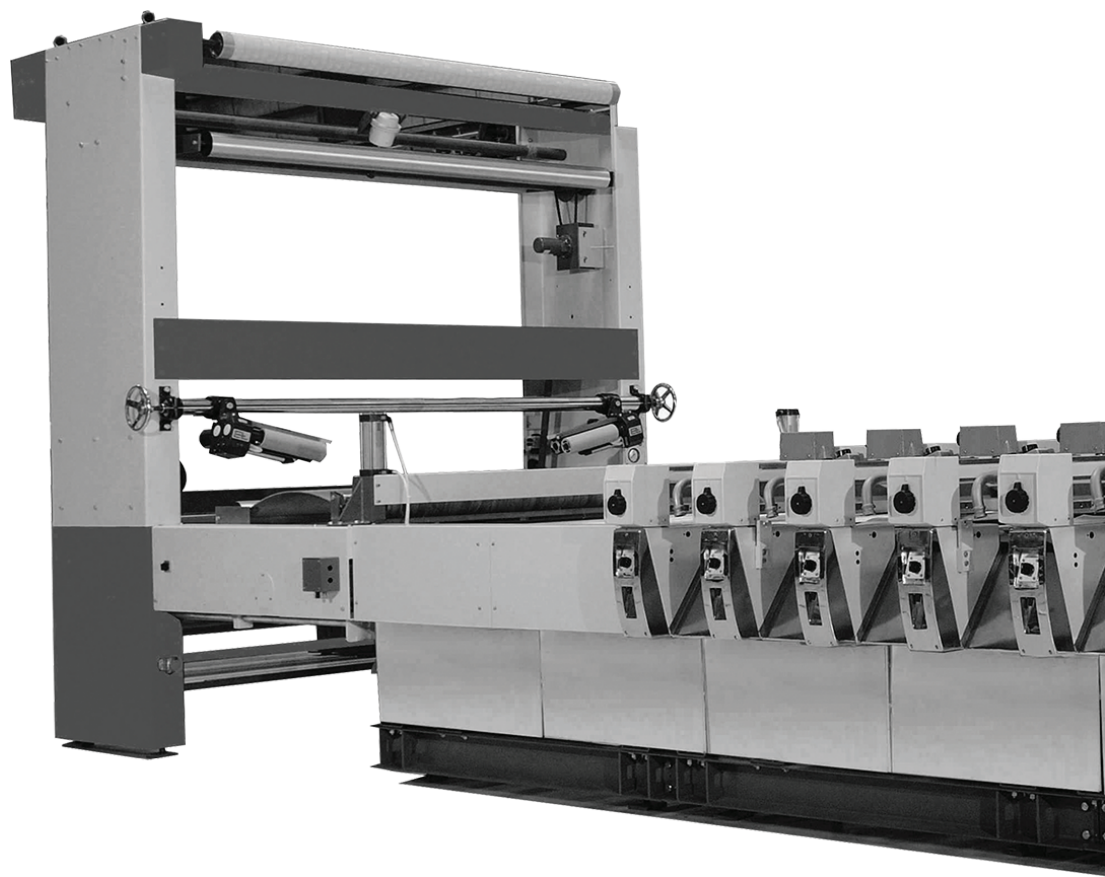
Optimal Printing Sharpness: Thanks to the **soft bed printing principle**

Optimal Repeat Accuracy: A single main motor driven by an AC servo module provides perfect synchronization of the Printing Blanket and the Screen Drive, ensuring high repeat accuracy.

Extreme Versatility: Can print a diverse range of repeats from 640 to 1018 mm. Suitable for all types of fabrics - woven, knits, natural fabrics or synthetics.

User Friendly: Superior Pneumatic Squeegee System - ensuring fingertip control for colour adjustments - even as the machine is running. It also comes with the Magnetic Squeegee system option.

In sum, **PALM** offers best price performance ratio.



In-feed & Substrate Guiding Systems

Suitable cloth guiding systems are available which can be used for everything from simple woven substrates to more complicated textiles such as knits with Lycra content.

Dust Extraction System

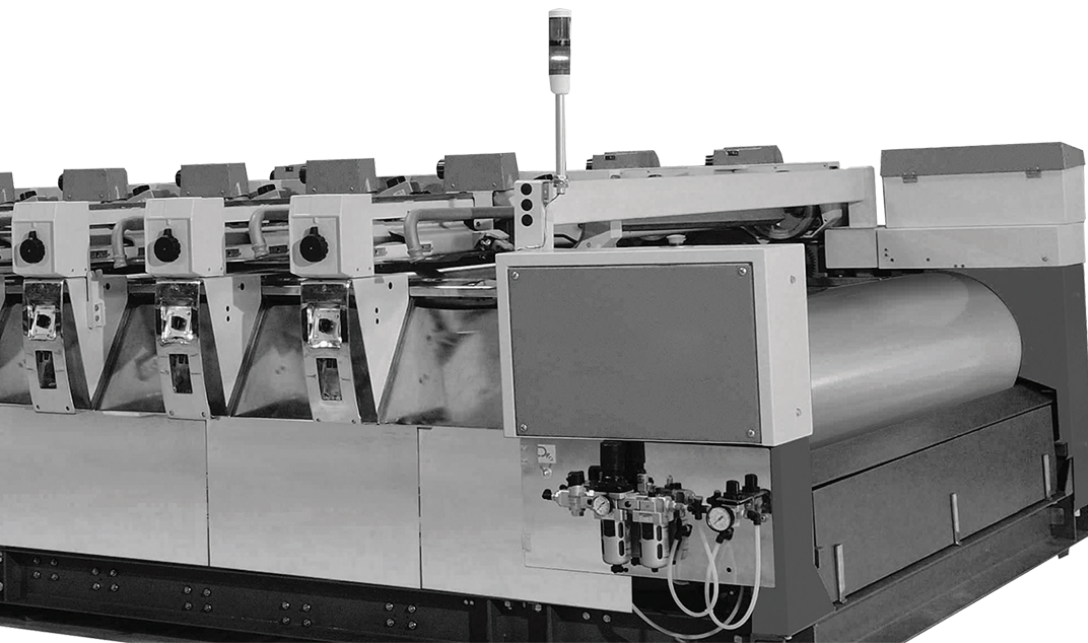
This system removes dust or lint from the substrate, to enable optimum printing quality. Best suited option can be chosen as per the specific substrates requirement.

Gluing Device (Wet)

A specially developed, multifaceted gluing device enables thickness control by a Blade Squeegee, maintaining correct glue thickness, independent of the speed. The thickness and width of the adhesive can be accurately set. The device is also easy to clean.

Thermoplast Adhesive System

This includes a special, speed-sensitive infra-red device to heat the blanket and thermoplast evenly. For an optimum gluing result, the substrate is pre-heated on the curved heated plate. This enables printing on synthetic substrates with the highest accuracy. All tools for applying and removing the adhesive are supplied with Thermoplast option.



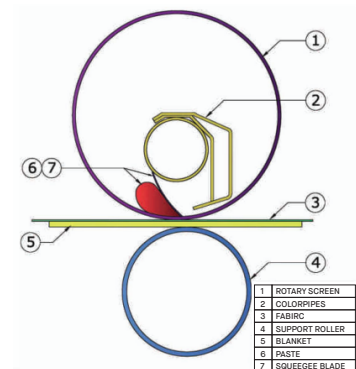
Innovative Functions & Options

Squeegee System and Closed Bearing

Optional mounting of Squeegee systems (Blade/Roller) on the closed Bearing System, as per customer requirements. Both Squeegee types can be combined in a single position - offering utmost printing flexibility, ideal for optimizing effects such as half tones, fine lines and blotches.

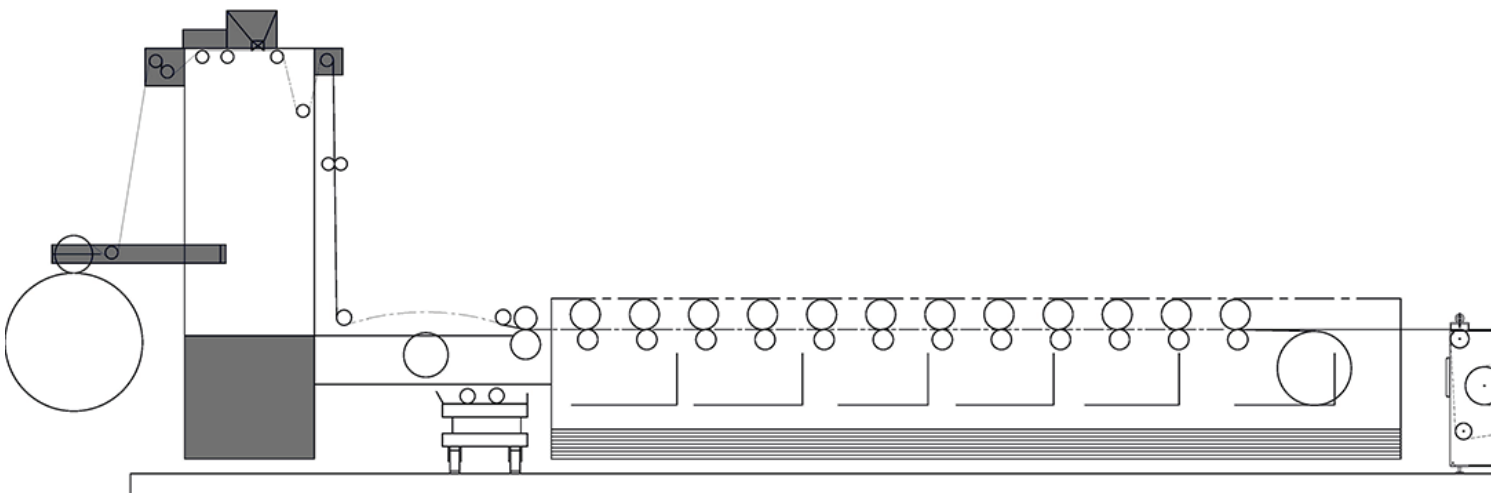
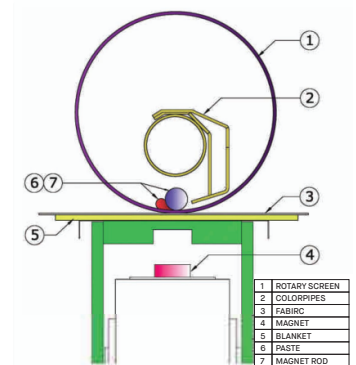
Blade Squeegee

The Blade Squeegee is 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 striking action of Blade Squeegee reduces paste consumption and pinholes, and increases colour brilliance. Lower friction between Screen and Squeegee also increases Screen life.



Magnet / Roller Squeegee

The Magnet Roller Squeegee is also a user-friendly system. The amount of paste is determined by the Roll diameter and the magnetic force, which is adjustable for each individual printing position.



Permanent Magnet Beams

These 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. These magnets do not require electricity to build up their magnetic force, which means no heat is generated. It also eliminates Beam deformation, resulting in superior printing quality and also energy saving.

Print Paste System

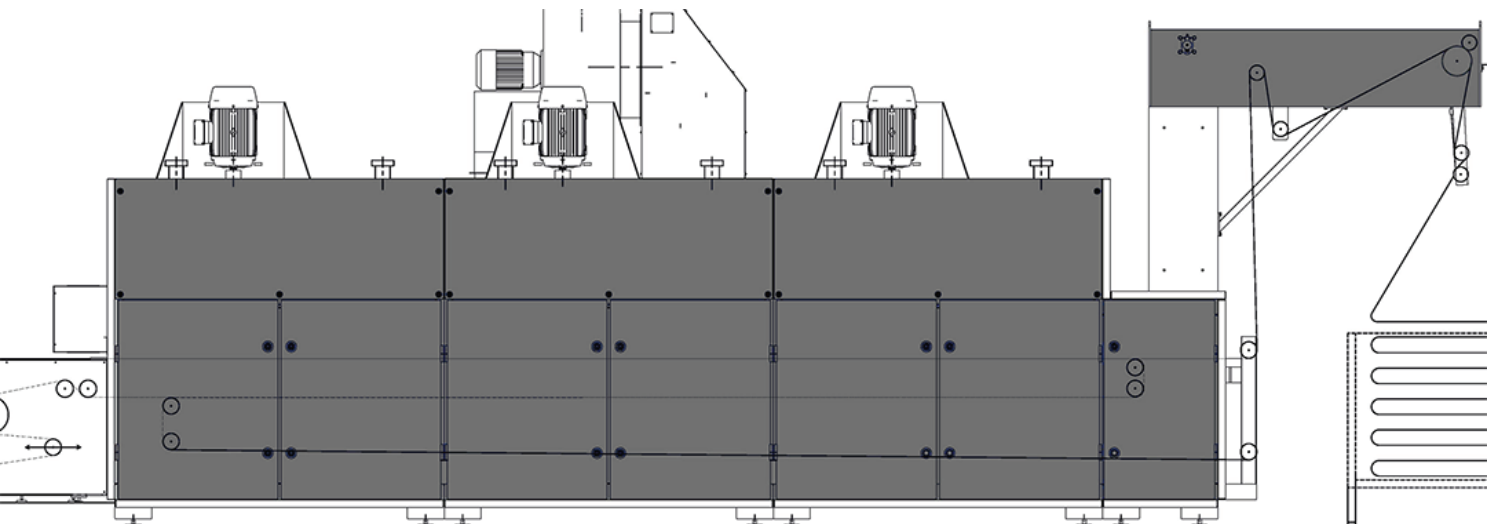
The Print Paste System consists of pumps located in a trough in the floor of the print shop. The total quantity of the Print Paste in the Screen can be controlled and kept to a minimum with the help of level controllers. At the end of print run, the pump direction can be reversed (in case of Gear Pump), which will return the Print Paste from the Squeegee Pipes to the vessel, so that paste losses during colour changes are minimized.

Blanket Washer

It is a standard feature that consists of a scraping squeegee with sponges and a spray pipe for clean water and dry-scraping squeegees. Both side of the squeegee can be used, which doubles their effective lifespan. It can be easily removed from under the printing machine to facilitate cleaning.

Blanket Water Saving Package

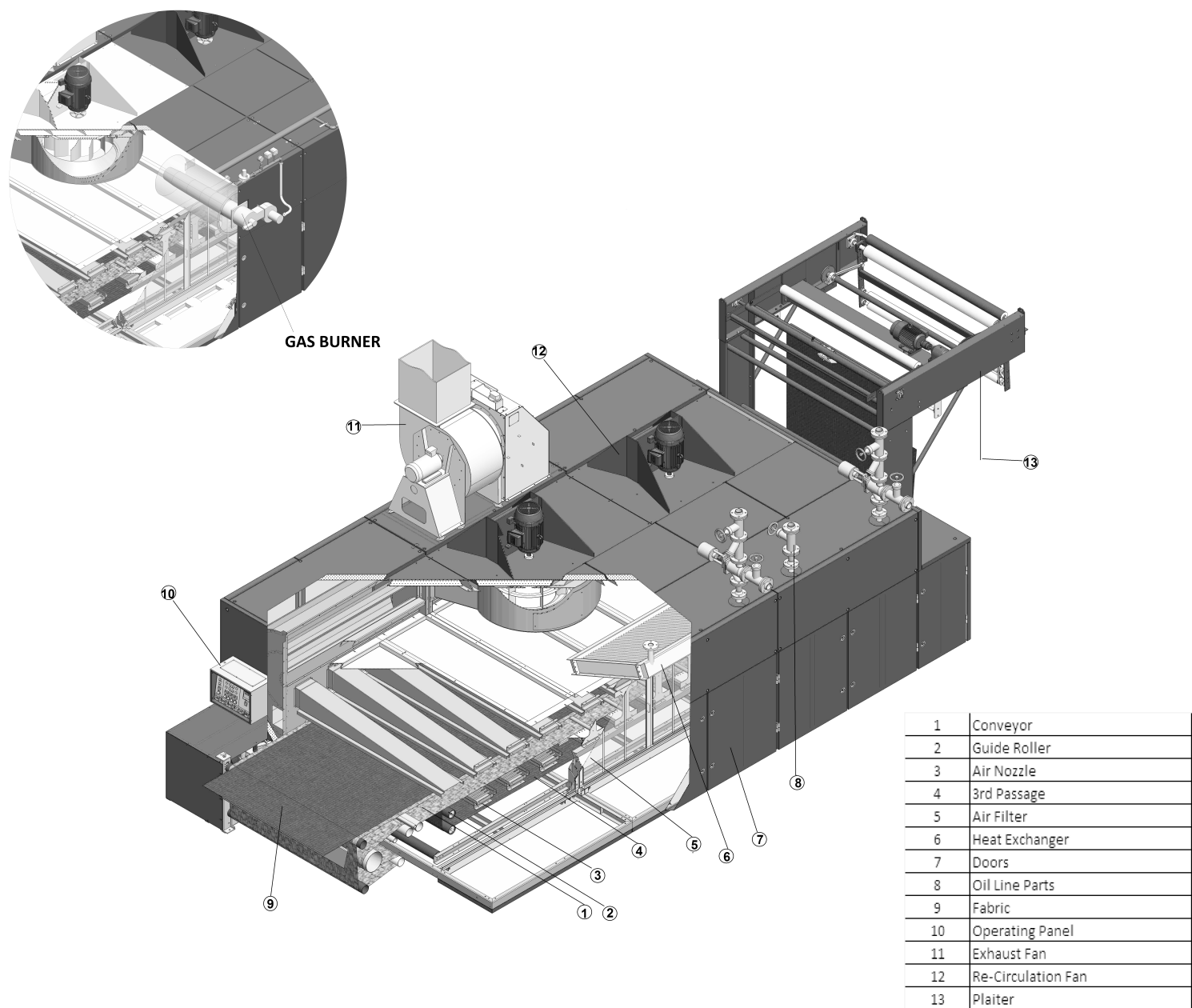
This package allows water in the blanket washer to be recycled. Clean water is required only for rinsing and makes a significant contribution to be conservation, while lowering operating costs.



Apollo II Dryer.

The SPGPrints' Dryer Apollo II is a high-efficiency drying unit that enables rapid and uniform drying of cloth widths ranging from 1280 to 2450mm. 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.



Technical Specifications

Features	Description
Printing width (in mm)	1280, 1620, 1850 & 2250 mm
Number of colour	Upto 16
Speed	Upto 80 meters per minute
Infeed	Knit / woven
Screen Drive	Common AC servo motor with gear box
Printing Heads	Closed, lifetime-lubricated
Squeegee System	Combination of Blade & Roller system
Operating and colour side	Left & Right fixed - looking from In-feed
Gluing System	Wet (with airflow squeegee blade) & thermoplastic gluing as option
Repeat options	640-725-819-914-1018 mm
Colour Pumps	Pneumatic/ SB-7 gear pumps
Dryer	Apollo II with 2, 3, 4 & 5 sections
No. of cloth passage	Standard: 3 pass Optional: 5 pass/ Extended Conveyor in 3rd pass / 2nd conveyor with variable speed
Exit Device	Plaiter (Standard) & Batcher (Optional)

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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