**spg**prints®

# Special screens

## Expand your possibilities in wallcovering and textile printing

**Printing tomorrow.**

130SP: 3-D embossing effect

# Special screens let you achieve the impossible!

SPGPrints range of special screens enables you to achieve levels of performance with your printing process that used to be considered impossible. Thanks to a unique design that combines a high mesh count with a large hole size, you can carry out extremely fine and detailed printing even when using large paste particles - without blockage. As well as opening up a whole new world of application possibilities, this also means less disruption to production, faster printing and longer screen lifespan.

When you need the very best in screen printing, nothing performs like a SPGPrints special screen. What else would you expect from the inventor of rotary screen printing?

## Half-tone and fine detail printing with particles up to 60 μm

One of the main attractions of SPGPrints special screens is that you can carry out half-tone printing. This is because you no longer have to choose between fine mesh or a large hole size - you get both.
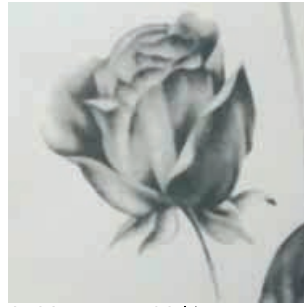
This unique combination allows you to work with particles up to 60 μm (or in some cases even larger) while retaining the accuracy required to achieve extremely detailed graduations (screen 130SP). In fact, the quality of halftones on wallpaper is so high with SPGPrints special screens that rotary screen printing becomes a viable alternative to gravure in many situations (screen 250SP, raster 60 l/cm). Special screens are also extremely suitable for other types of fine detail printing, as well as multiple-colour runs that use special pastes such as metallic (e.g. gold or silver) or Iriodine for a high-sheen finish.

130SP: – less blocking
– fine details



250SP: raster 60 l/cm



250SP: raster 60 l/cm



130SP: 3-D embossing effect



125CH: 3-D high
embossing effect



25SP: – particles ± 200 μm
– no blocking



New: 125LR compact PVC
and half tones



New: 80CH 3-D high
embossing effect

## Greater design freedom through higher paste volumes

SPGPrints special screens enable a much higher volume of wet paste to be used during printing. This is due to the increased hole size, as more paste can be accommodated in each hole. Special screens enable, for instance, printing using PVC- or water-based foams at much higher resolution than was previously possible. Greater paste volumes also bring more design freedom in textile and wallcovering manufacture, enabling specialised applications such as 3D printing.

## Minimised blockages means more efficient production

By using screens with an extremely high open area and large hole size, there is less chance of hole blockage, even when using pastes with large particles. This gives you a number of important advantages. Smaller amounts of paste are required, because paste transfer onto the substrate is better at a low squeegee pressure. You suffer less downtime through having to change blocked screens. The amount of scrap due to blockage is considerably reduced. The screens are in service longer. And the chances of damaging screens during cleaning are diminished because cleaning is not required as often. All of this, of course, lowers your operating costs and therefore improves your profitability. In addition, SPGPrints special screens are characterised by extremely high quality and durability, which also contributes to lengthening their lifespan.

## Superb results with all types of design

The considerable choice in SPGPrints special screens means that there is a solution for even the most demanding situations. There are screens that offer both high mesh count and large hole size to versions with holes sizes right up to 1500 μm. It is even possible to order customised screens for extremely specialised applications.

# Technical specifications

| Repeat (mm) | Mesh | Thickness (µm) | Open Area (%) |
|---|---|---|---|
| **SP** | | | |
| 640 | 14 | 175 | 66 |
| 640 | 25 | 150 | 50 |
| 640 | 30 | 120 | 60 |
| 640 | 40 | 120 | 50 |
| 640 | 40 | 150 | 38 |
| 640 | 70 | 120 | 35 |
| 640 | 80 | 120 | 30 |
| 640 | 80 | 150 | 25 |
| 640 | 100 | 150 | 20 |
| 640 | 100 | 150 | 40 |
| 640 | 125 | 150 | 15 |
| 640 | 130 | 120 | 33 |
| 640 | 160 | 120 | 27 |
| 640 | 190 | 120 | 24 |
| 640 | 250 | 80 | 7 |
| 640 | 250 | 100 | 16 |

## SP

Large open area and relativaly large number of holes make the SP particulary suitable for applying decorative, patterned paste coatings.

| Repeat (mm) | Mesh | Thickness (µm) | Open Area (%) |
|---|---|---|---|
| **HD** | | | |
| 640 | 40 | 160 | 17 |
| 640 | 60 | 160 | 10 |
| 640 | 70 | 160 | 7 |

## HD

As for LR, but greater wall thickness allows use for heavier applications and large substrates widths.

| Repeat (mm) | Mesh | Thickness (µm) | Open Area (%) |
|---|---|---|---|
| **LR** | | | |
| 640 | 40 | 125 | 20 |
| 640 | 60 | 125 | 14,5 |
| 640 | 70 | 125 | 12,5 |
| 640 | 125 | 110 | 23 |
| 640 | 125 | 120 | 12,5 |

## LR

Patterned coatings in closed layers. Lighter coatings – artificial leather, backlit material, wallcovering and flooring.

| Repeat (mm) | Mesh | Thickness (µm) | Open Area (%) |
|---|---|---|---|
| **CH** | | | |
| 530 | 40 | 200 | 22 |
| 640 | 40 | 200 | 22 |
| 640 | 40 | 200 | 40 |
| 640 | 50 | 165 | 41 |
| 640 | 50 | 200 | 12 |
| 640 | 50 | 200 | 20 |
| 640 | 80 | 200 | 25 |
| 640 | 125 | 200 | 25 |
| 914 | 40 | 175 | 22 |
| 914 | 40 | 200 | 22 |
| 914 | 60 | 200 | 11 |
| 914 | 60 | 300 | 10 |
| 914 | 80 | 180 | 25 |
| 914 | 125 | 200 | 25 |

## CH

As for HX. Very stable screen wall, but usually less thick than HX. Suitable for medium-heavy applications.

| Repeat (mm) | Mesh | Thickness (µm) | Open Area (%) |
|---|---|---|---|
| HX | | | |
| 640 | 14 | 450 | 40 |
| 640 | 25 | 300 | 30 |
| 640 | 30 | 300 | 40 |
| 640 | 40 | 210 | 25 |
| 640 | 40 | 300 | 30 |
| 640 | 40 | 350 | 12 |
| 640 | 40 | 400 | 20 |
| 914 | 14 | 450 | 40 |
| 914 | 25 | 300 | 30 |
| 914 | 25 | 300 | 40 |
| 914 | 25 | 450 | 12 |
| 914 | 40 | 300 | 15 |
| 914 | 40 | 300 | 22 |
| 914 | 40 | 300 | 30 |
| 914 | 40 | 350 | 12 |

## HX

Heavy coating; stable and unstable foams; PVC foams on wallcovering, flooring and back coatings. Aluminium layers for sun proctection, ironing board covers and protective clothing. Coating of vertical blinds.

| Repeat (mm) | Mesh | Thickness (µm) | Open Area (%) |
|---|---|---|---|
| CC | | | |
| 640 | 11 | 215 | 11 |
| 640 | 11 | 215 | 17,5 |
| 640 | 14 | 175 | 13,5 |
| 640 | 14 | 215 | 11 |
| 640 | 17 | 175 | 15 |
| 640 | 17 | 215 | 11,5 |
| 640 | 23 | 215 | 13,5 |
| 640 | 25 | 175 | 18 |
| 640 | 25 | 200 | 9 |
| 640 | 25 | 200 | 14 |
| 640 | 30 | 215 | 11,5 |

## CC

Dot coating, strengthening textile wovens and nonwovens, anti-slip dots, glue dots to strengthen automotive upholstery, glue for laminate production.

| Repeat (mm) | Mesh | Thickness (µm) | Open Area (%) |
|---|---|---|---|
| E | | | |
| 640 | 30 | 150 | 28 |
| 914 | 30 | 150 | 28 |

| Repeat (mm) | Mesh | Thickness (µm) | Open Area (%) |
|---|---|---|---|
| HP | | | |
| 640 | 65 | 120 | 35 |
| 640 | 85 | 100 | 23 |
| 640 | 85 | 115 | 23 |
| 640 | 105 | 100 | 19 |
| 640 | 105 | 115 | 19 |

Possible screen lengths (mm): 1410, 1750, 1980, 2650, 3050, 3500, 3800 (other types or specifications available to special order).

# 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 int he 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.

**Printing tomorrow.**