



GRANITE



RSI Technology

Rotary Screen Printing Line

spgprints®

Printing tomorrow.

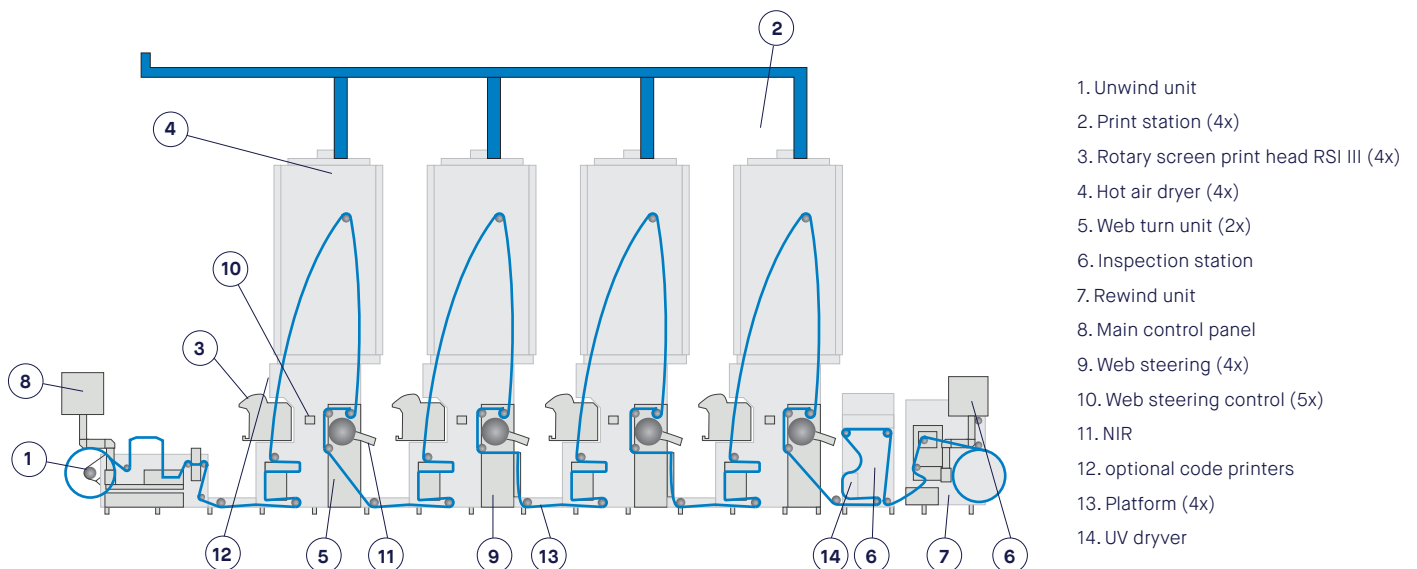
Focusing on high-volume Printed Electronics production:

SPGPrints Granite: Rotary Screen Production Line

If you are running an existing roll-to-roll production line, there is the possibility to integrate a Marble module, which enables you to add functional inks to your applications using SPGPrints screens. But, if your Printed Electronics application has gone into series production, and the demand is rising, you could consider a full Granite production line

In the field of printed biosensors for instance, the volumes have grown rapidly in the past few years. One of SPGPrints' European customers uses several 4-print station Granite production to produce high volumes of biosensor test strips. The same principle can be used to produce biosensors that can test for a range of viruses, or even glucose levels. And there are more fields within printed electronics that have shown these levels of growth, think about RFID or large surface antenna's for instance.

The Rotary Screen modules are capable of operating at web speeds 100m/min when needed, giving you production capacity at unrivalled levels. A well-thought design and software concept ensures that exchanging screens and squeegees is accomplished in minutes - minimizing downtime between jobs. And there are more fields within printed electronics that have shown these levels of growth, think about RFID, large antenna's, PTC car seat heaters, e-ink displays and much more.





Rotary screen production line

Complete solution for the printed electronics market:

- Maximum 26" width
- Electrical heated, high efficient hot air dryers
- 4 meter drying content
- Driven cooled rollers
- Well balanced web tension control
- In register printing
- From one up to 4 print stations

Printing System for Printed Electronics

The Hot Air Rotary Screen Printing line is a high-volume solution for Printed Electronics. The position of the dryers, on top of the printing stations and the platforms between the printing stations, allows for easy (visual) inspection of the printing process. The machine also leaves space for the integration of UV/NIR/IR systems. Its design - with one or more printing stations in one line - enables you to produce your product in one single run. The type of substrate you use is not a problem; the machine handles all sorts of substrates, from sensitive film to heavy paper.

Using SPGPrints Rotary Screen Printing is perfect for long runs and repeat orders, as it can run up to 500.000 linear meters (1.64 million ft). Additionally, back-ups are not necessary, and the screens can be stripped and reused for up to 20 (or even more) different jobs, making it a very sustainable solution. Not only is it sustainable, but it also will favor your production capacity. The Rotary Screens are capable of operating at web speeds of over 100 m/min (490 ft/min) and exchanging screens and/or squeegees is done within minutes. No mechanical or electrical adjustments are required, so downtime will be minimal.

If you have any questions about SPGPrints Rotary Screen Printing or integrating it to your specific Production line, you can always contact our specialists. By requesting a Proof of Concept, you can discover what this technique can do for your manufacturing right away. We'd love to hear your challenges and opportunities.

To find out in more detail how our solutions can help you, visit www.spgprints.com/applications-printed-electronics and reach out to one of our experts.

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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