



spgprints®



BASALT

Your starting point for scaling up in Printed Electronics

Printing tomorrow.

Cost-Effective Precision for Printed Electronics

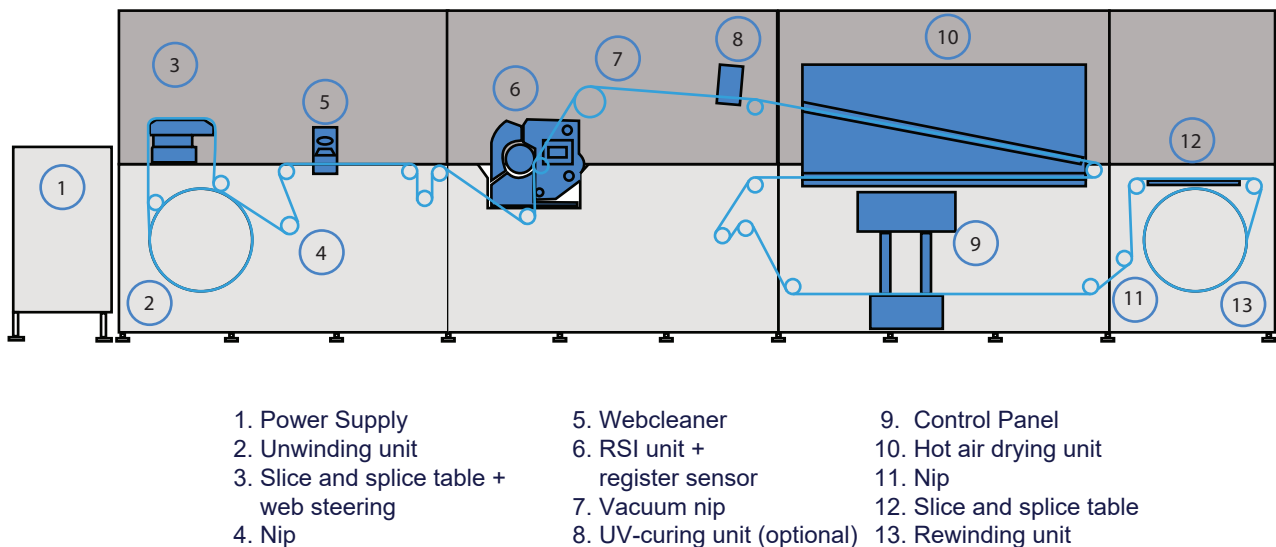
Introducing Basalt: a modular, entry-level rotary screen integration (RSI) line

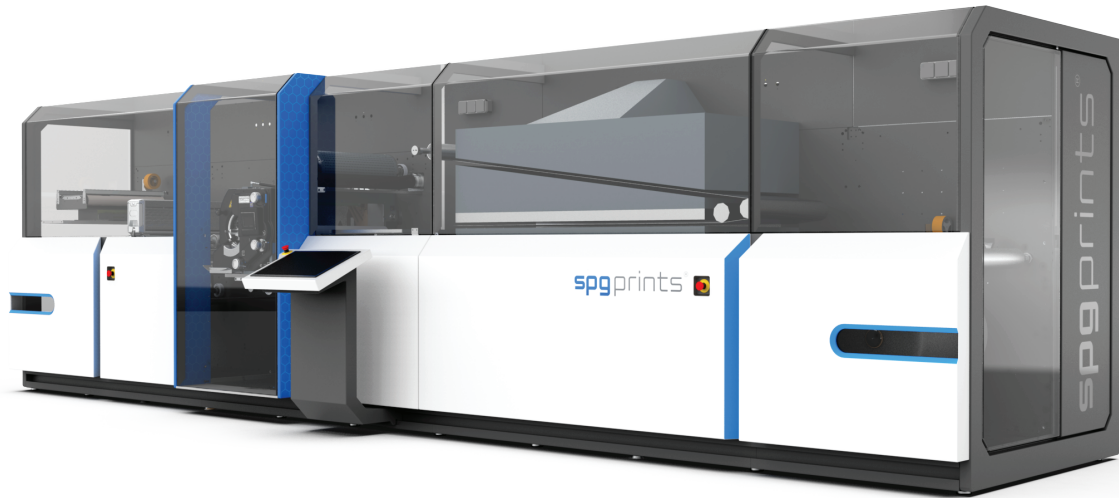
As the Printed Electronics market grows rapidly, finding a scalable, high-quality production solution is essential. The Basalt RSI Line by SPGPrints is designed to meet this need. Offering rotary screen printing technology in an entry-level, Basalt enables businesses to scale up production efficiently, without compromising quality or breaking the bank.

Built for Growth and Innovation

The Basalt RSI Line bridges the gap between small-scale flatbed printing and high-volume rotary production. Whether you are manufacturing RFID tags, sensors, antennas or other electronic components, Basalt empowers you to take your production to the next level:

- **Affordable Scalability:** Start with a compact setup and expand as your production needs growth. Basalt is the perfect entry point into rotary screen printing.
- **Continuous Production:** Deliver consistent, high-quality results with seamless designs and uninterrupted circuits - essential for advanced printed electronics applications.
- **Minimal Downtime:** The design consists of robust technologies with at the heart the SPGPrints Marble RSI unit and hot-air drying, optimizing production with minimal downtimes.





Why choose for Basalt?

- **Efficient and Versatile:** Basalt supports a wide range of substrates, from thin films to heavy paper, and delivers results at mechanical line speeds ranging from 3 to up to 100m/min.
- **Innovative and Flexible:** Rotary screen technology allows for intricate designs and continuous patterns that flatbed printing simply can't achieve. The Basalt can also be expanded with other known technologies, such as UV or NIR systems.
- **Sustainable Solutions:** With reusable RotaMesh screens that last for up to 500,000 linear meters, Basalt reduces waste and supports eco-friendly production.
- **Easy to Integrate:** Compact and complete, Basalt fits seamlessly into your production line, letting you expand capacity without disrupting your existing operations.

Lowering the threshold

The Basalt RSI Line provides a cost-effective solution to smaller companies or start-ups. The concept is designed to lower the entry threshold for companies looking to transition to rotary screen printing. High-quality, consistent printed electronics are created with no compromise on output quality. This makes Basalt the ideal rotary screen print solution for conducting initial qualifications on a smaller scale at an achievable price point.

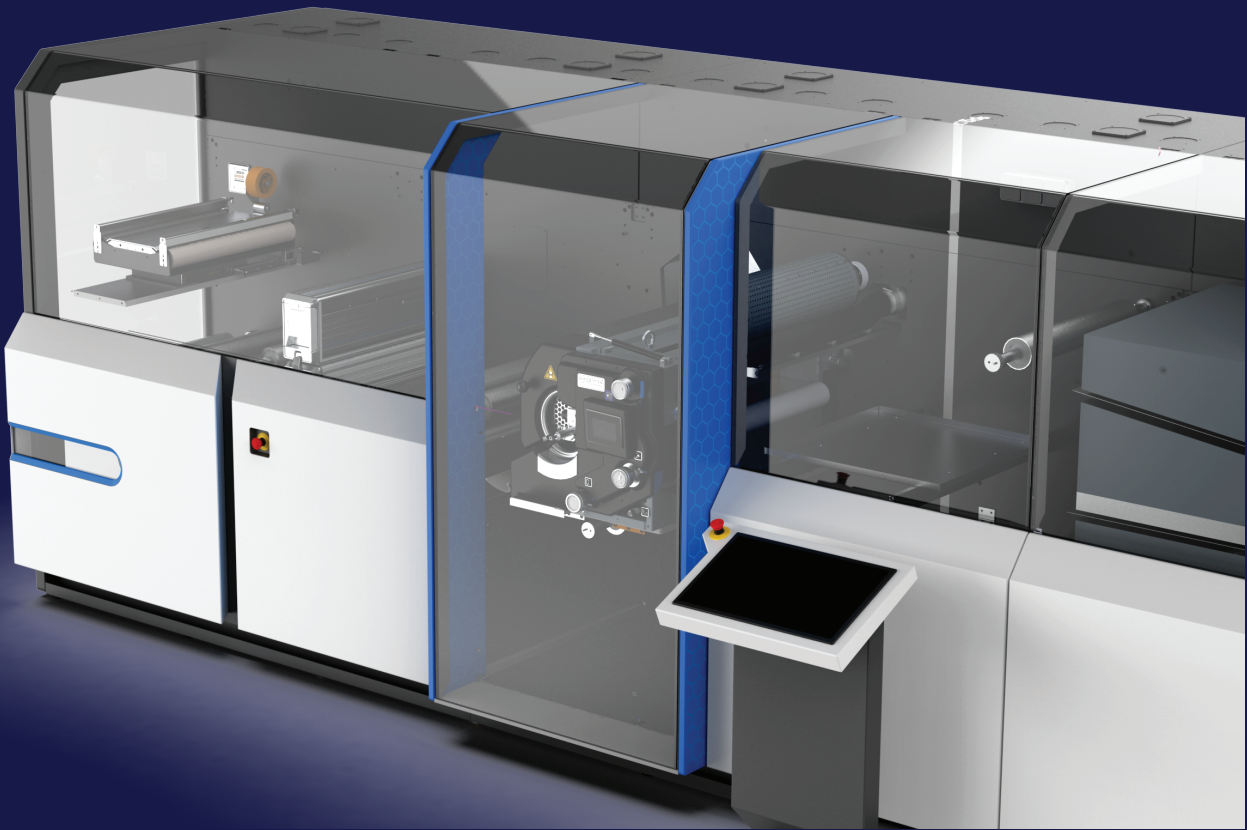
Basalt isn't just a transitional technology, but a growth tool. Printed electronics innovators can qualify applications with precision and accuracy. Furthermore, it is just as well possible to make longer runs for final production. Rotary screen printing with Basalt can be responsive, with users able to log, track and control every stage of the process. This provides potential customers with the confidence in quality at production volumes.

Built for innovation and scale



BASALT

Features	Description
Max. printing width	508 mm (20")
Repeat sizes	12-25.25" (step 1/8")
Substrate width	350 mm - 550 mm
Thickness substrate	90 µm - 350 µm
Max roll diameter	600 mm (3" core)
Shaft	3" and 6" (adapter)
Mechanical Line Speed	3 - 100 m/min
Dryer heating source	Electrical (optional UV-curing available)
Dryer content	3.6 meter
Dryer temperature range	60-180 °C
Dimensions	7.1 m x 1.7 m x 2.0 m (2.6 m with open lid)
Power supply	3 x 400 V + N + PE, 125 A
Line transport	Both ways, feed-forward and feed-backward
Standard equipment is engineered and built in accordance with	CE





Collaborate with an experienced partner to stay ahead of competition

Transitioning to rotary screen printing may seem challenging, especially if your company and staff has years of experience with flatbed screen technology. While rotary screen printing requires new skills for designers, engineers and operators, the investment brings significant benefits.

The key to a smooth transition is partnering with a company that has proven expertise in rotary screen printing. SPGPrints offers tailored support, guiding your team through new processes and ensuring faster adoption. Our experienced consultants provide comprehensive support, helping your operations team quickly master the technology and optimize production.

With decades of innovation in rotary screen printing, SPGPrints ensures seamless implementation and continuous optimization. From designing efficient production setups to staff training, we simplify your transition and deliver high-quality results. When you choose for Basalt, you gain access to our extensive experience and support.

Unleash your Potential with Production-as-a-Service

We recently launched our Production-as-a-Service (PaaS) concept. This enables companies considering an investment in Rotary Screen Printing technology for industrial-scale printed electronics to run tests, O-series and even the first production batches. PaaS allows you to test your applications at our facilities before committing to a full-scale-investment. You can learn about and try out new production options, offering a risk-free option to trial new print technologies and experience the benefits before making an investment.

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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