

A close-up photograph of a large industrial machine, the SPG Prints Thorium. The machine is primarily black and white. On the black side panel, the 'spgprints' logo is visible in blue and white. Below the logo is a red emergency stop button. To the right, a large, perforated metal roller is part of the machine's mechanism. A blue label with the word 'THORIUM' and a small icon is on the white section of the machine. The background is a solid dark blue.

spgprints®

spgprints®

THORIUM

# SPGPrints Global Pre-Press Portfolio

Discover our turn-key solutions for the packaging and label printing industry.

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Printing tomorrow.



# Computer to plate - CTP

SPGPrints takes computer to plate technology to the next level: high quality and high productivity are finally combined with an attractive level of investment. SPGPrints has drawn more than 37 years of experience in imaging systems to create a solution which really answers all the market needs. The black mask ablation is done with specially developed high power fibre laser diodes. Top quality with a long lifetime.

## TAKING CARE OF OUR PLANET

**"Printing Tomorrow"** is about more than shaping the future of printing technology. It's also about doing what we can to ensure a sustainable future for our planet. At SPGPrints saving energy, water and chemicals is a priority. We monitor and purify the water and air we use before it leaves the factories and process our waste responsibly, observing local regulations and standards. These activities are grouped in 3 categories:

- **More sustainable products and solutions**
- **Greater process efficiency**
- **Extended equipment lifetime**

# Computer to plate technology

Fibre Diode lasers are used to image the printing form by ablating a black mask or by UV-curing directly (with the use of UV-lasers) a photosensitive lacquer. Depending on your requirements, the laser head can be delivered in several configurations to match your productivity and flexibility demand. The laser diodes are combined with our high definition optics which can meet even your highest quality requirements. The system also comes with an integrated inline UV LED exposure system. It substantially increases quality by creating steep shoulders and flat-top dots. This allows cleaner printing results and larger tonal ranges compared to other UV-techniques on the market. Along with the quality aspect, our inline UV eliminates process steps, improves the reproducibility and reduces the amount of labour. The only thing needed besides our CTP system is a power socket and a plate washer.

## „TRADITIONAL“ CTP



## TITANIUM - CTP







## TITANIUM

### CTP - Computer to plate

The **TITANIUM**, formerly **variLEX**, is **SPGPrints'** answer to the need of a **multifunctional CTP solution**. The dynamic market and the ongoing technological developments force the printing industry to increase the quality and improve the flexibility in file formats, materials and printing technologies. The **TITANIUM** can be equipped with a multibeam fibre diode laser system for ablating the black mask and/or a multi-beam diode UV-laser system to directly expose UV-sensitive materials like rotary screens. The integrated inline UV LED exposure system is unique. Ablation and exposing are carried out in a single step, eliminating the offline main exposure. The machine can also be equipped with different mounting cylinders to handle different materials:

- black anodized vacuum cylinder to handle flexo plates
- magnetic cylinder to handle dry offset/letterpress plates
- screens
- hybrid cylinder (vacuum and magnetic) to handle all materials



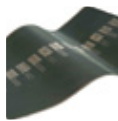
The laser engraver comes with **SPGPrints'** unique software solution including our database driven on-the-fly RIP system. This allows the use of all common file formats in the graphics industry. **The TITANIUM is therefore the most flexible, high quality pre-press solution for the label and packaging industry.**

## FEATURES

- **Multifunctional system**  
for multiple printing applications  
„open system“ - all file formats supported
- **High productivity**  
due to reduced process steps  
fastest, adjustable inline UV in market
- **Easy reproducibility**  
database driven software



dry offset



RotaPlate®



flexo plate



letterpress



digital film



## TECHNICAL SPECIFICATIONS

<b>Laser</b>	FD / UV multibeam
<b>Max. plate size</b>	635 x 762 mm / 25" x 30"
<b>Max. number of plates</b>	08 / size 185 x 310 mm
<b>Rotaplate size</b>	10"-25" x 555 mm
<b>Resolution variable up to</b>	5080 dpi





## TITANIUM

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dry offset



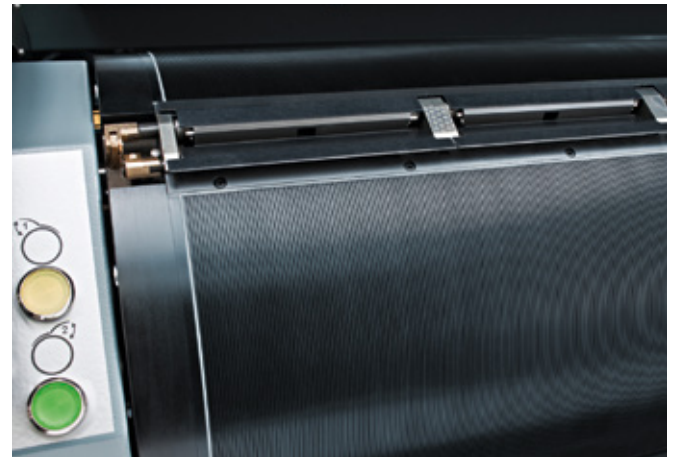
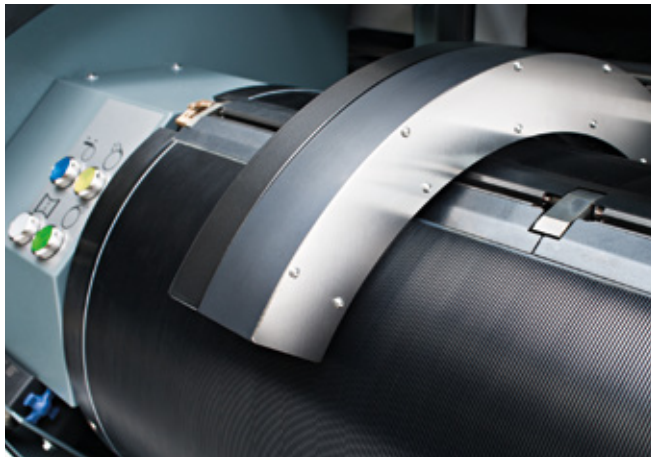
flexo plate



letterpress



digital film



## TECHNICAL SPECIFICATIONS

<b>Laser</b>	FD multibeam
<b>Max. plate size</b>	1200 x 900 mm / 48" x 35"
<b>Max. number of plates</b>	12 / size 185 x 310 mm
<b>Resolution variable up to</b>	5080 dpi





# Direct laser engraving - DLE

SPGPrints' direct laser engraving solutions are unique in regards to the quality of engraving. For more than 37 years we have been developing systems, allowing the engraving of plates and seamless printing forms for several applications. Various materials like polymer, elastomer and lacquer can be engraved, independent of its colour. Many different applications can be supported with the graphical pre-press systems. Industries are:

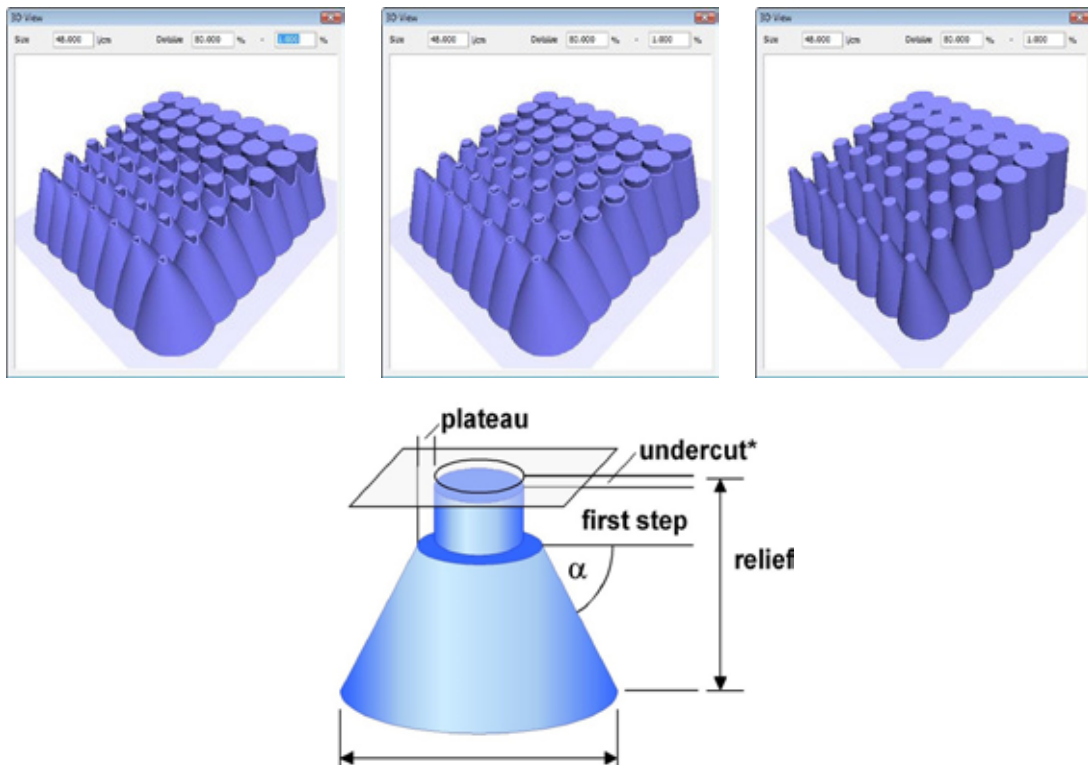
- **flexo market**
- **dry offset market**
- **screen printing market**
- **embossing market**
- **security printing market**

All prepress solutions from SPGPrints are equipped with a digital database which stores different calibrated material specifications. This reduces the chance of human errors and increases the efficiency in the whole workflow.



# Active 3D®-RIP system

Our unique Active 3D®-RIP system, developed in-house, allows 3-dimensional dot shaping of the printing forms. This is used to prevent over-impression of smaller elements. Smaller elements are set below the printing surface, so they print equal to larger elements.

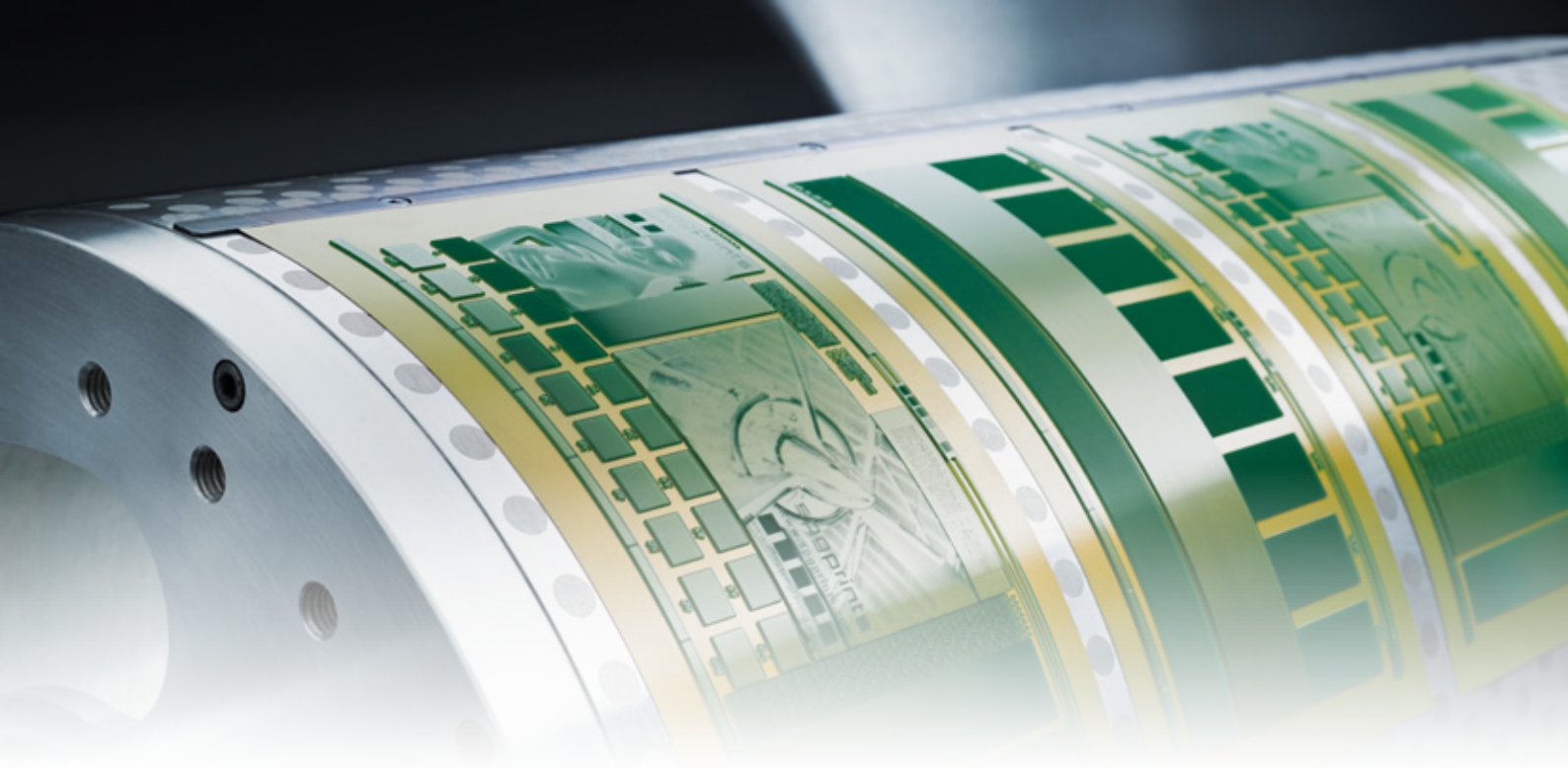


## „TRADITIONAL“ CTP



## THORIUM - DLE





## THORIUM

### DLE - Direct laser engraving

**The THORIUM direct laser engraving system, replacing our successful HELIOS, is a proven solution for producing high quality printing forms for various applications.** Different materials can be imaged, like polymer, elastomer, POM, etc., regardless of its colour.

Like every direct laser engraving system of SPGPrints, it uses our database controlled Active 3D®-RIP system for relief printing forms in order to produce the optimal dot shape of the image. This results in excellent quality without special software tricks.

The THORIUM allows a complete digital process with just one step and needs no external gas supply. No solvent processing, no chemicals to be handled and stored. Dry offset printers can now produce the highest quality print with a shorter, simpler process with far less chance for errors and multiple cost saving potentials in the printing process. Overall response time is reduced for increased flexibility in meeting customer demands with no compromise in quality. Our laser systems are known for their stability and excellent reproducibility.





## FEATURES

- **Multifunctional system**  
for printing plates, sleeves and rollers
- **Highest quality with longer runs**  
due to Active 3D® dot shaping and below surface dot
- **Shorter workflow**  
single step dry process



dry offset



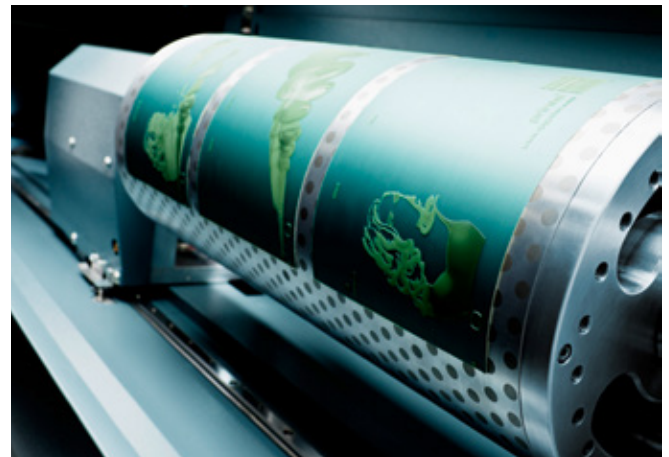
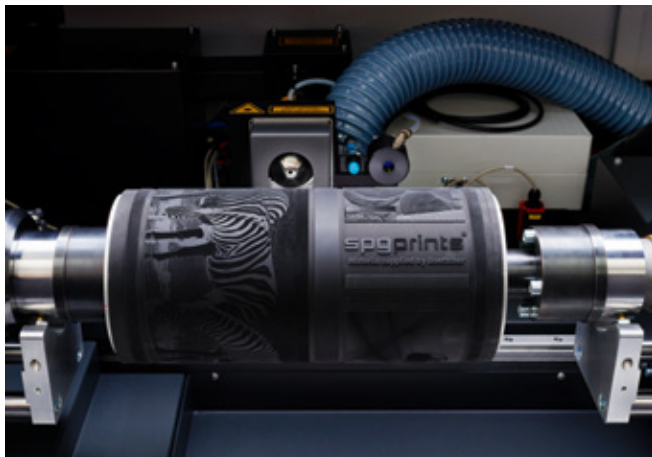
sleeves



embossing

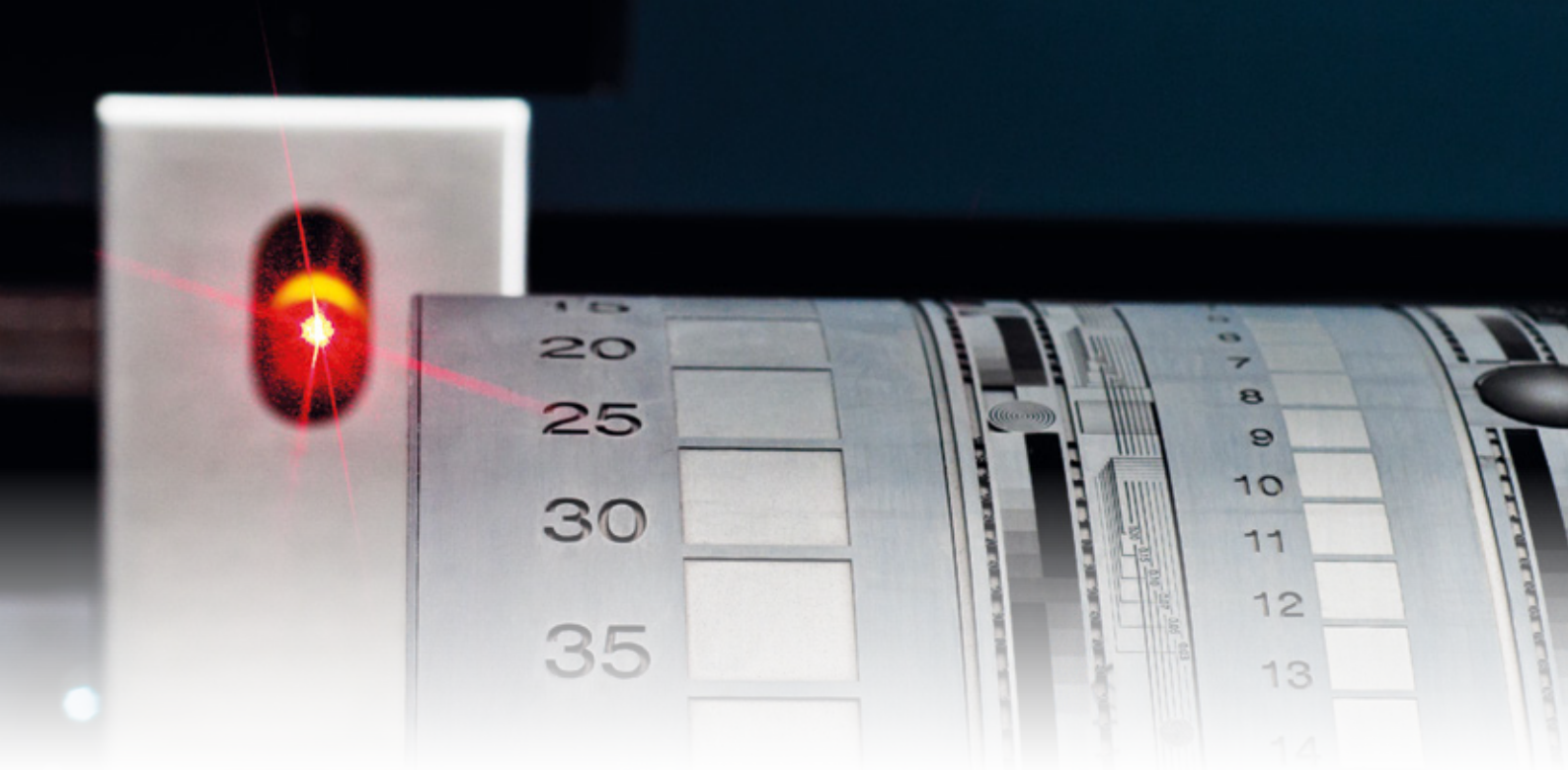


blankets



## TECHNICAL SPECIFICATIONS

<b>Laser</b>	Sealed single beam
<b>Max. number of plates</b>	09 / size 185 x 310 mm
<b>Sleeve engraving width</b>	< 900 mm / 35.43"
<b>Sleeve repeat size</b>	267 - 1210 mm / 10.51" - 47.48"
<b>Resolution variable up to</b>	5080 dpi



## PLATINUM

### DLE - Direct laser engraving

The **PLATINUM**, previous **KRONOS**, is SPGPrints' answer for companies who need seamless, endless sleeves and rollers. The unique laser system, developed in-house, allows top quality, even at higher relief depths, in order to meet today's and future requirements for elastomer sleeve making.

The system is equipped with our own Active 3D®-RIP software, which allows the direct imaging of various file formats. Like all prepress solutions from SPGPrints, the PLATINUM is equipped with a digital database to store different calibrated material specifications. This reduces the chance of human errors and increases the efficiency in the whole workflow.

The system is designed to work with air cylinders in between 3-jaw chuck and center point. The optional available feature „Auto Milling“ increases the productivity by milling non-printing areas. „Scan & Calibrate“ allows sleeve surface measuring for advanced quality through semi-automated material calibration.





## FEATURES

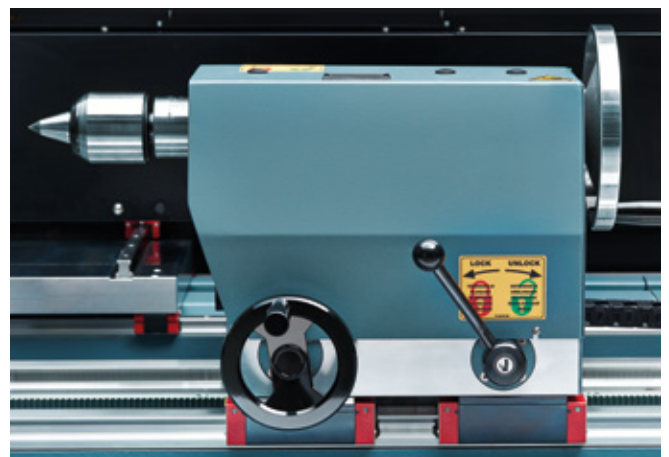
- **Highest quality with longer runs**  
due to active 3D® dot shaping and below surface dot
- **Shorter workflow**  
single step dry process - „on the fly“ Active 3D®-RIP
- **High quality workhorse**  
for heavy cylinder & plates - deep seamless relief engraving



sleeves

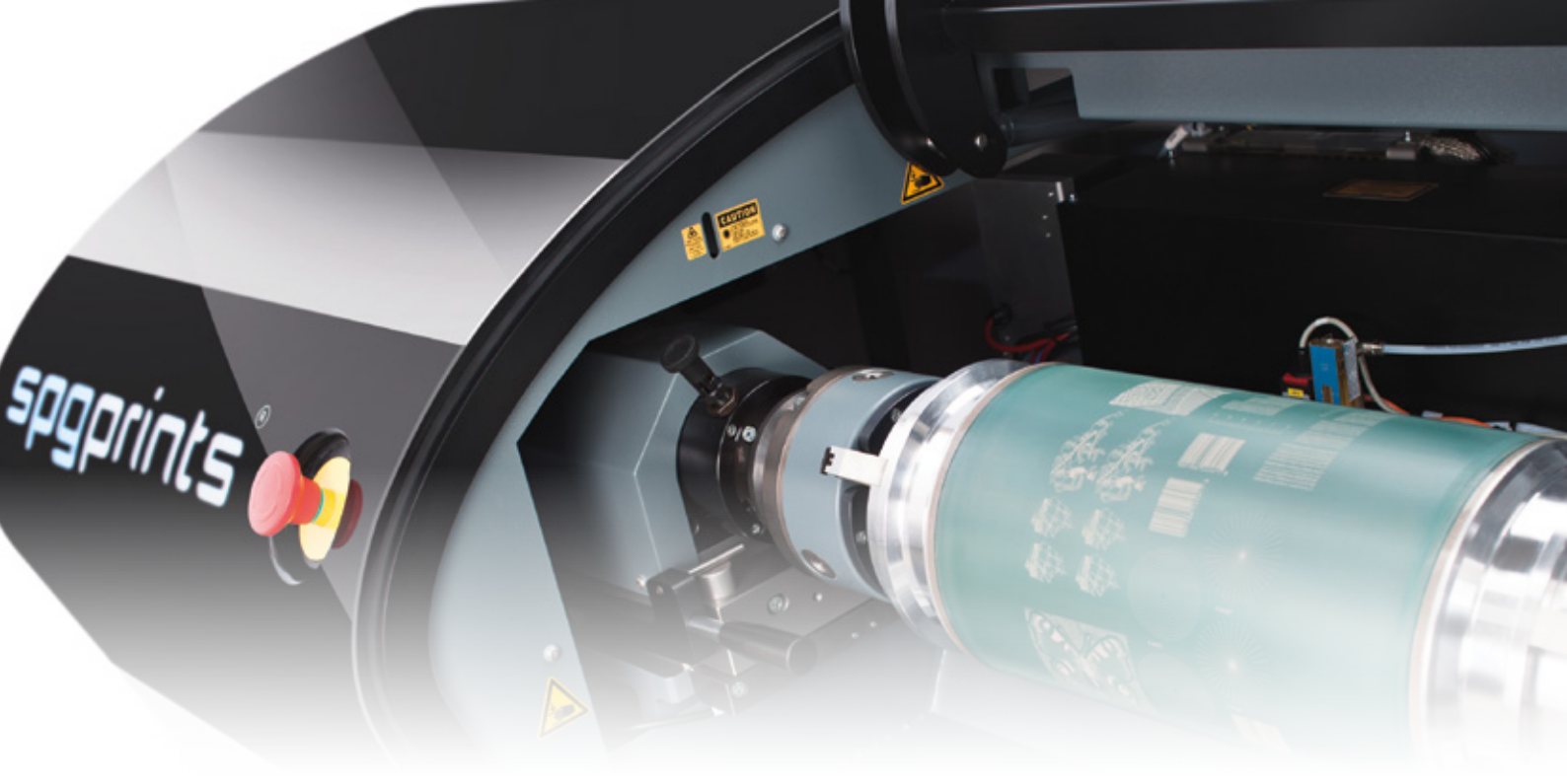


plates



## TECHNICAL SPECIFICATIONS

<b>Laser</b>	sealed or fibre
<b>Sleeve engraving width</b>	8612 < 2.000 mm / 79"
	8613 < 3.200 mm / 126"
<b>Sleeve repeat size</b>	125 - 1.250 mm / 4.95" - 49.45"
<b>Resolution variable up to</b>	5080 dpi
<b>Load weight up to</b>	1.000 kg
<b>Option</b>	auto milling / scan & calibrate



**RHODIUM**



**IRIDIUM**

### **DLE - Direct laser engraving**

**Direct laser engraver systems RHODIUM and IRIDIUM are specially designed to serve printers in the label, security printing, bio sensors and electronic printing market.**

The RHODIUM concept, formerly rotaLEN, is based on SPGPrints' technical excellence and applicational know-how of more than 37 years in direct laser engraving of rotary screens. The RHODIUM can easily be integrated into the existing workflow and engraves images onto RotaMesh® and RotaPlate® screen material, in a single-step dry and fully digital process. With the shortest possible time-to-press and perfect reproducibility, no remakes due to film or wash out issues, the RHODIUM allows an economical and cost effective screen making workflow.

The IRIDIUM, previous secuLEN, is available with a customized SecuScreen® & SecuPlate® mounting system for the security printing industry.





## FEATURES

- **Sustainable working process**  
single step dry process - no water consumption
- **High flexibility**  
use with RotaMesh® and RotaPlate®  
use with SecuScreen® and SecuPlate®
- **Perfect reproducibility**  
due to reduced process steps and auto-calibration



RotaMesh®



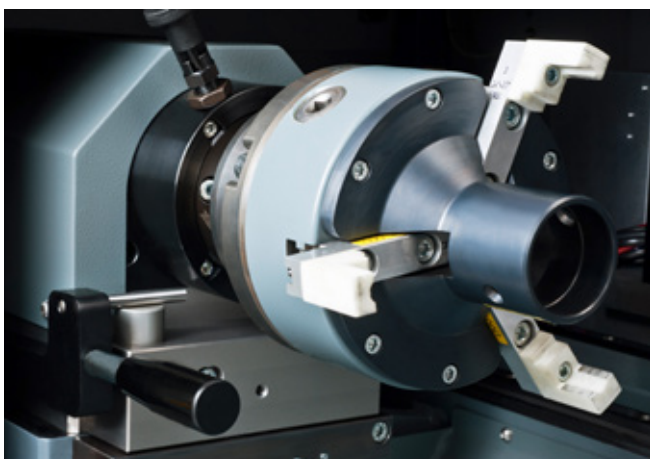
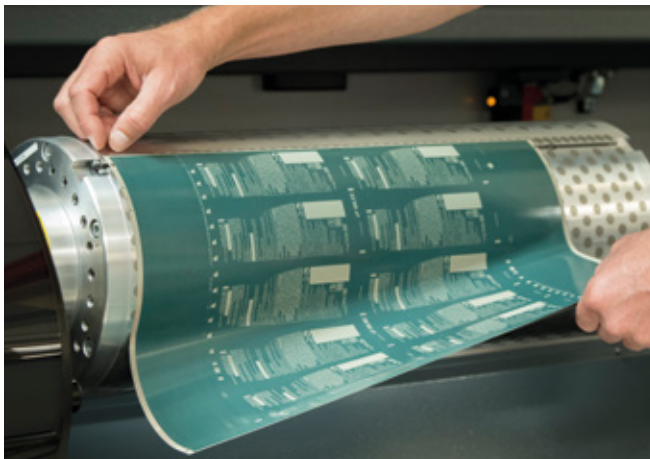
RotaPlate®



SecuScreen®



SecuPlate®



## TECHNICAL SPECIFICATIONS

<b>Laser</b>	sealed single beam
<b>RotaMesh size / SecuScreen size</b>	10" - 36" x 1200 mm / R640 - 1200 x 1000 mm
<b>RotaMesh size / SecuPlate size</b>	10" - 25" x 555 mm / <900 x 880mm
<b>Resolution variable up to</b>	5080 dpi



## CAD Software bestIMAGE

SPGPrints own software **bestIMAGE** is the optimal CAD/CAM solution for your workflow.

The software includes unique features like “Active 3D®-RIP”, “Remove Overlay” and “Job Editor” which are supported with a preview.

Every SPGPrints' pre-press system comes with a built-in “on the fly” RIP, which reduces the file preparation time. Images can also be rasterized offline on the CAD station. In this way tools like “Remove Overlay” and “Frame Up” make it possible to optimize your file for perfect final print results.

The total system is database driven via its “Production Calibration” which reduces the chances of human errors, increases productivity and ensures the highest possible quality.

Using the CAD station, job tickets can be created with the “Job Editor” in order to increase the up-time on the prepress machine and avoid mistakes. Just open the job ticket and press start.

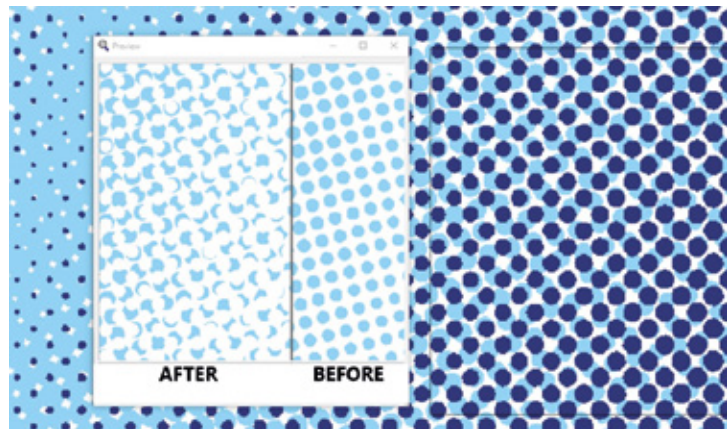




## FEATURES

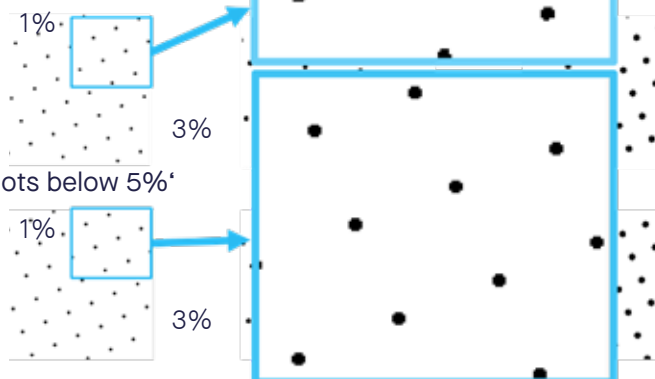
- **Highest run-time on pre-press**  
due to optimal CAD/CAM solution
- **Best versatility**  
all file formats supported
- **Efficient printform improvement**  
due to supplied functions like remove overlay

- **Remove overlay**  
no ink contamination  
save ink



- **Optimize dots**  
dots below 5% are uniform  
allowing very homogen background

Without 'optimize dots below 5%'





# Our complete Service Level Agreement offering

Need expert advice?

**Of course, every production environment and customer requirement is different. As a long term partner for producers in all parts of the world we know this from experience. Based on information and insights we can advise the most suitable level of support. Our aim is to align with your needs and in-house technical competence. That's how we stick to our mission to contribute to the success of our customers. Do you need more advice or information? Just talk to us.**

## REMOTE SUPPORT

Remote Support includes remote monitoring of your systems for swift analyses and direct access to a centralized back office with skilled service specialists. Regardless where you are located, the first line service organisation in your region can immediately escalate to a second line in case more expertise is required. With remote service we aim to solve your issue remotely, once possible. This is the fastest way to solve problems that don't require onsite visits.

## MAINTENANCE SUPPORT

Maintenance Support includes remote support and covers Field Service Engineer (FSE) visits for planned preventative maintenance. It also covers the parts and consumables that are necessary for periodic maintenance. Based on operating data, we can ensure the right tooling and parts to come with the engineer at your location.

## FULL SERVICE SUPPORT

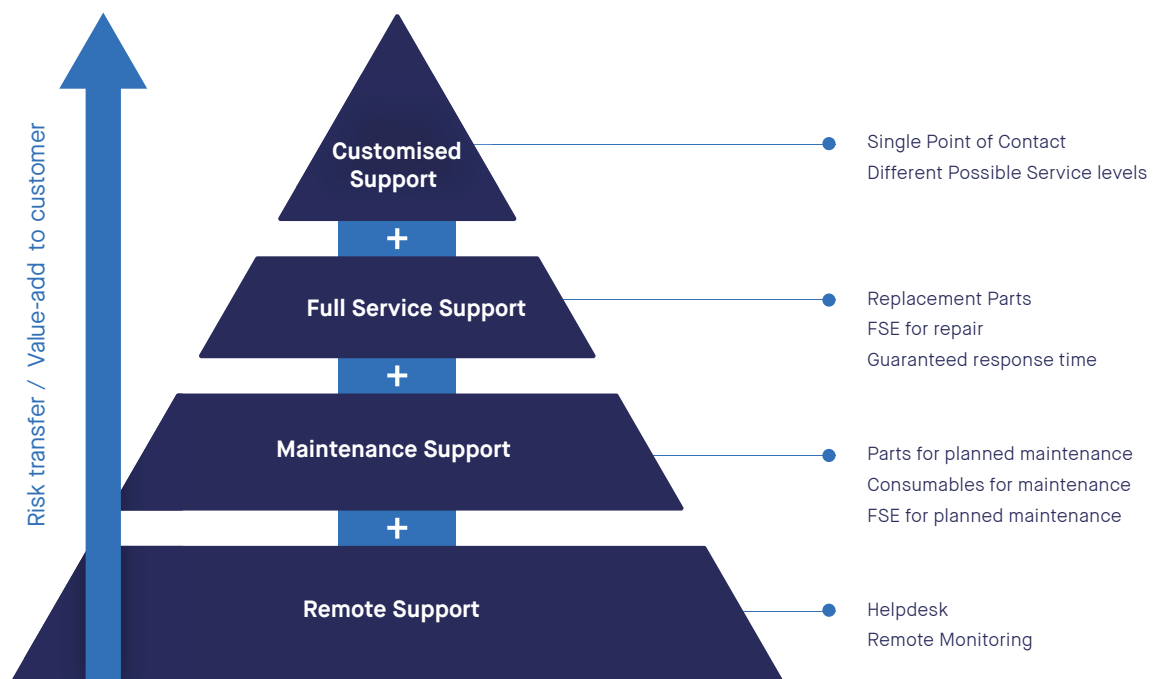
In addition to the standard Maintenance Support agreement, the Full Service Support option also covers the costs of repairs. That is including labour costs of the Field Service Engineer and any replacement parts that are required to resolve the problem. Most importantly, the Full Service Support agreement offers a guaranteed response time. We know if your production is stalled, you're in need for fast and accurate service.

## CUSTOMISED SUPPORT

For a growing number of customers we provide Customised Service Support agreements that include tailor made service level agreements. This is usually required for production sites with multiple installations, more complex independencies and 24/7 operation that does not allow for any interruption. Based on assessment we can design and implement an optimal service package.

## BREAK-FIX SERVICE

Needless to say that SPGPrints is also there for you with accurate Break-Fix service, in which case you bear the costs per event. Besides unplanned costs, the unplanned request for specialist attention or required availability of specific spare parts can cause undesired delays. This type of service transfers most of the risk to the customer, but we always try to minimize the impact as much as we can.





## 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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