

spgprints®



YTTTRIUM

**Laser exposing system  
for high accuracy prints**

Printing tomorrow.



# YTTRIUM

## Precision redefined for advanced printing solutions



### YTTRIUM

**Direct laser exposurer**

**The YTTRIUM Laser exposure system is the ideal solution for the exacting demands of the printed electronics market and high precision label customers.**

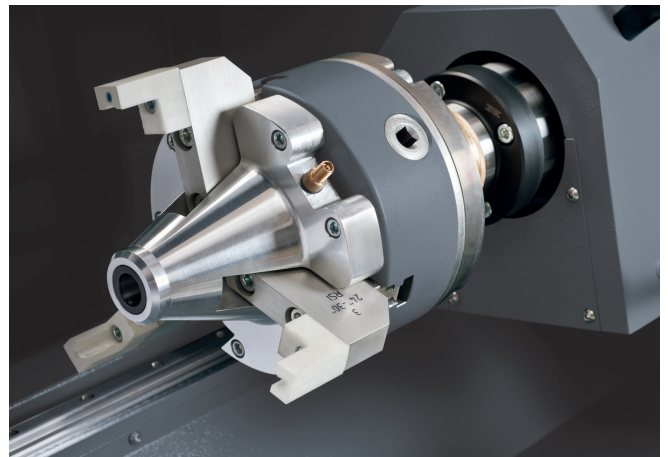
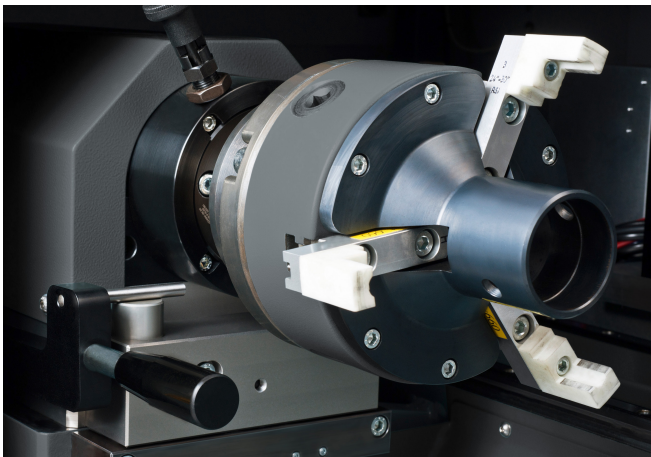
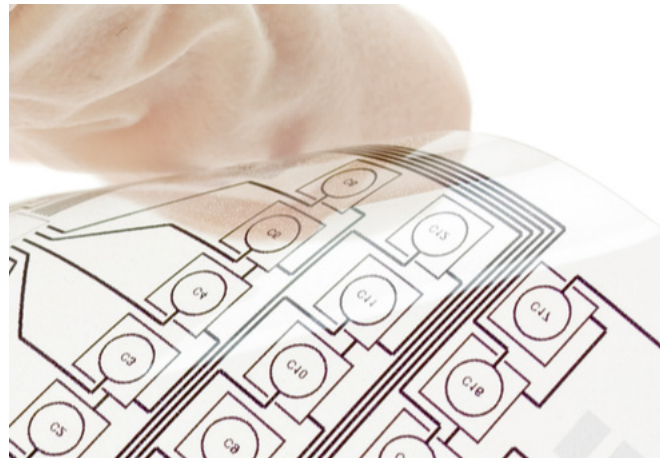
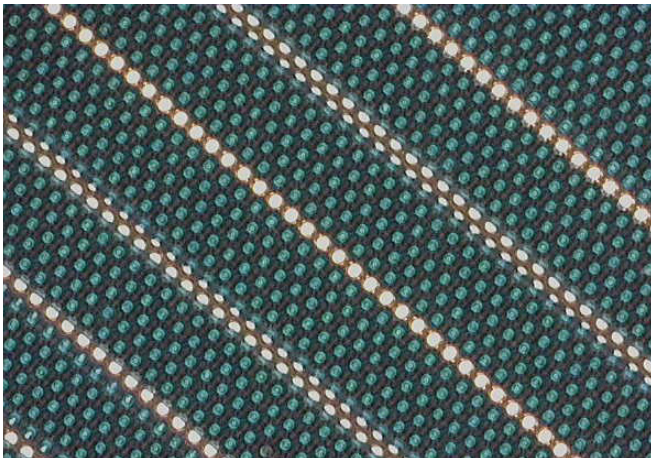
The laser exposurer delivers precise and consistent patterning of screens for functional inks on flexible substrates, enabling the production of advanced circuits crucial for sensors and antennas as well as for any application that requires high accuracy.

Featuring a high resolution up to 5080dpi, YTTRIUM ensures unwavering accuracy through advanced control mechanisms, optics and laser technology. The in-house developed software with user-friendly job file preparation and digital database establish perfect reproducibility and increasing efficiency in the whole workflow. YTTRIUM's maximum flexibility extends to seamless integration with SPGPrints' RotaMesh® and RotaPlate® screens.



## FEATURES

- **High precision patterning**  
due to high quality UV laser technology  
due to HD resolution up to 5080 dpi
- **High flexibility**  
from sheets to seamless round screens - full portfolio with RotaMesh® and RotaPlate®  
“open system” - all common file formats supported
- **Easy reproducibility**  
user-friendly and databased driven software



## Lower your overall cost of print with RotaPlate® or RotaMesh®

The YTTRIUM system gives customers a competitive advantage through its accuracy and flexibility, making the complete RotaPlate®/RotaMesh® workflow more attractive. Having a higher ‘first time right’ result of the printed electronics application, combined with more screen options, gives a direct positive effect on the overall cost of print.



# Technical specifications YTTRIUM

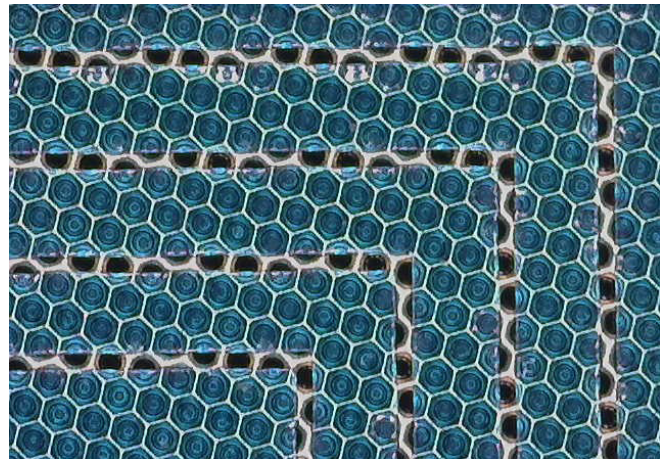
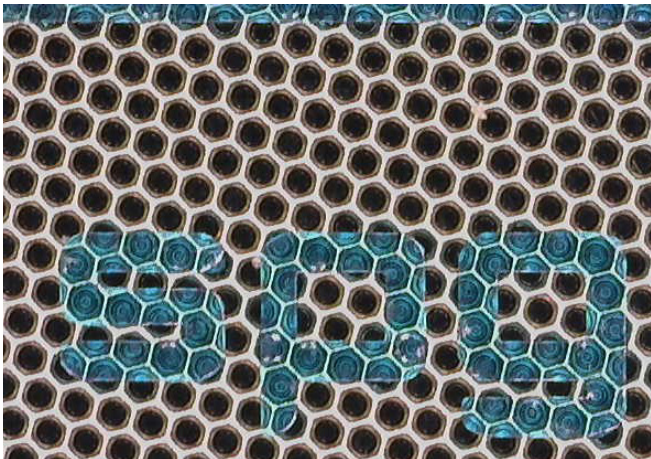
|                              |  |
|------------------------------|--|
| Laser                        | UV Laser diode   |
| Resolution variable up to    | 5080 dpi   |
| Raster                       | adjustable "On the fly"  |
| RIP                          | "On the fly"   |
| AM software                  | bestIMAGE - CAM Expert   |
| File format                  | *.tif, *.pdf, *.lyr, *.LEN and others  |
| CFixing system option 1      | Bladder system (RotaMesh®)   |
| RotaMesh size R x W          | 10" - 36" x 1100 mm<br>for printing width max. 1000 mm   |
| Fixing system option 2       | Magnetic zylinder (RotaPlate®)   |
| RotaPlate size R x W         | 10" - 36" x 565 mm   |
| Machine dimensions L x W x H | 3400 x 1200 x 1315/1860 mm   |
| Machine weight               | ~1400kg  |
| Power supply                 | 3 x 400V 50Hz + N + PE; 16A / 11 kVa<br>Prefuse (at standard voltage): 25A<br>Options: Other voltages and/or 60 Hz |



# The highest accuracy available on the market

The YTTRIUM laser exposure system represents an optimal solution to meet the exacting quality requirements of the printed electronics market. With its precise and consistent screen patterning capabilities, this system enables the production of advanced circuits on flexible substrates, essential for creating sensors and antennas.

YTTRIUM is the best choice for any application that requires high accuracy and consistent results, ensuring a good fit in demanding markets like high resolution label printing as well. Take a closer look at these microscopic images showcasing precise lines and curves, highlighting the laser system's capability to accurately cover half of a hole on the screen.



**YTTRIUM**

## Direct laser exposer

Designed to work as an end-to-end solution, you can leverage SPGPrints' expertise from screen making to laser engraving and printing systems, ensuring optimal results throughout the entire process.



## 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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