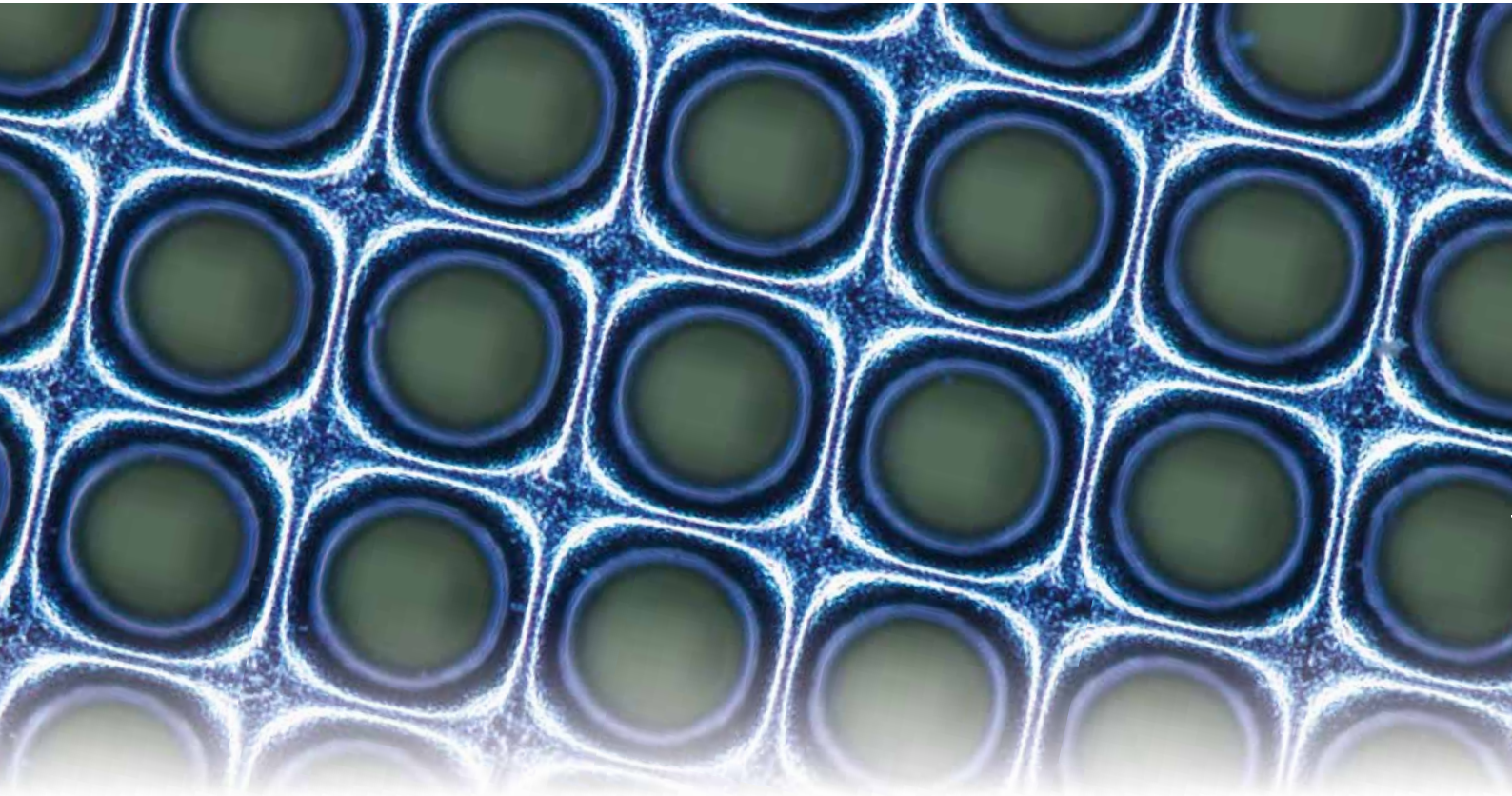
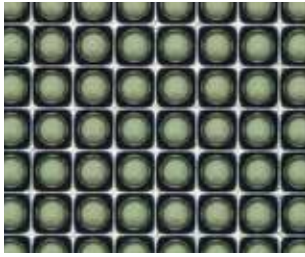


spgprints®

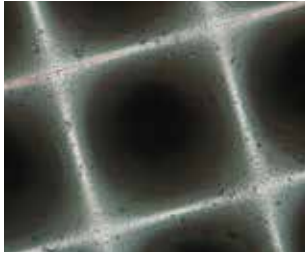


**OrtaScreen™**

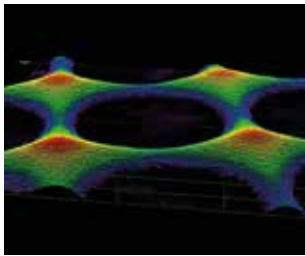
Reinventing screen technology.



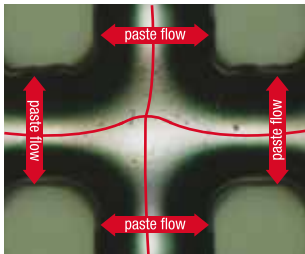
Structure of the OrtaScreen™



Top view OrtaScreen™



Detail of the screen dam



Microscopic view showing the four bridges of the OrtaScreen™

### Evolution of screen technology

Ever since SPGPrints invented rotary mesh screens in 1963, we've been reinventing them over and over. Over the course of several years we increased the mesh count and open area. Evolving our standard screens into an industry standard; the PentaScreen®. But we knew we could take the printing quality to a higher level. The next evolution of screens became manifest in the shape of the bridges. NovaScreen® surpasses the PentaScreen® in open area by bringing the shape of the bridges in a conical form.

### Introduction of the OrtaScreen™

Designs often make use of halftones and grids, which are based on an orthogonal orientation. Printing these designs with the hexagonal grid of common rotary screens can generate undesired moiré. Due to the reduced number of hole lines (2 instead of 3 in hexagonal screens) there are more possibilities of arranging the raster angle. Also, pixel based programs prefer 45 and 90 degrees design orientations for geometrical micro designs. This can lead to interference between design and screen raster. The technology of OrtaScreen™ is patented and the screen features an orthogonal hole grid and allows a much better fit between design and screen.

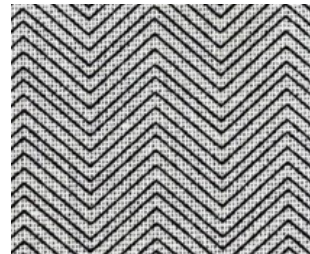
### Superior printing definition

Besides the 45 degrees printing capabilities, the orthogonal orientation brings 4 bridges together instead of the 3 in hexagonal screens. The OrtaScreen™ features a three dimensional surface structure, allowing the paste of adjacent holes to flow together and to cover the textile substrate easily. It allows to print geometrical designs and halftone grids with high edge sharpness and leads to unrivaled print definition. Furthermore blotch printing is taken to a new level.

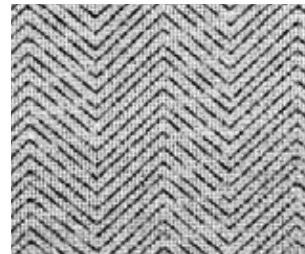
### Specifications

The OrtaScreen™ features 195 mesh resolution with 16% open area and 115 micron thickness.

### Comparison new OrtaScreen™ vs current screen technology



Detail of fineline print with OrtaScreen™



Detail of fineline print with current screen technology

### Global network assuring the highest levels of support

Thanks to our global presence, we understand local market needs and leverage our strengths through an international network of global manufacturing facilities and a distribution foothold in more than 100 countries. We set industry standards in technology, product performance and service.

For further (contact) information, please visit [www.spgprints.com](http://www.spgprints.com)

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