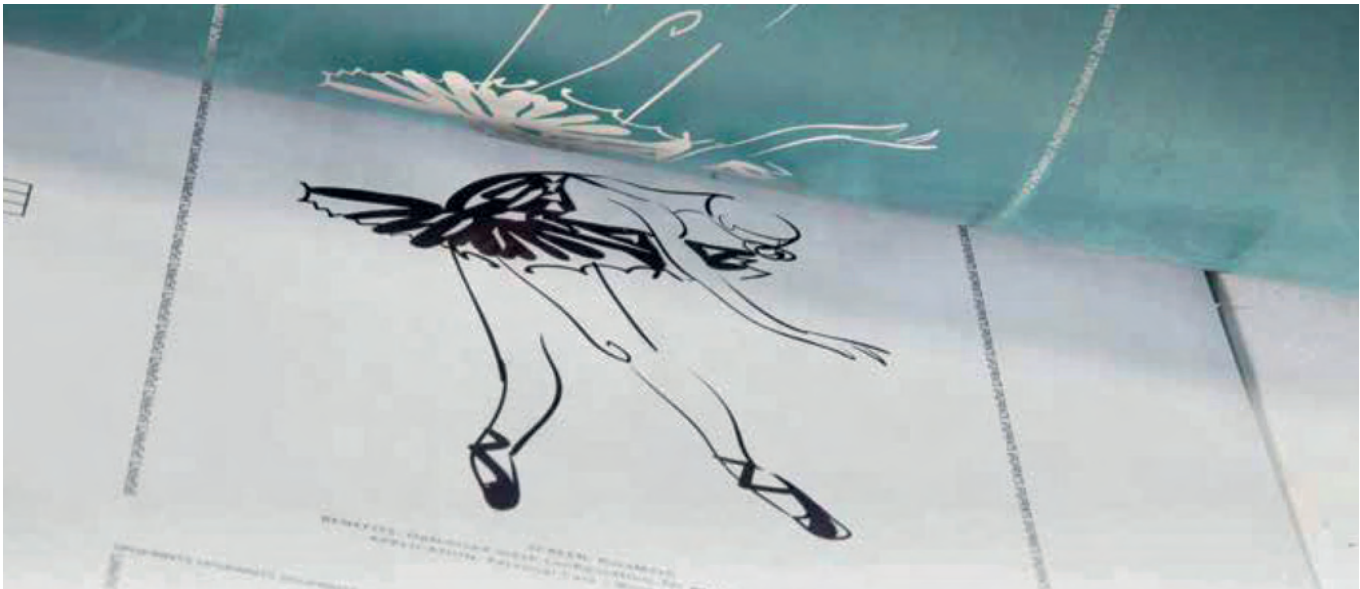




The ultimate workhorse in screens for rotary screen integration.



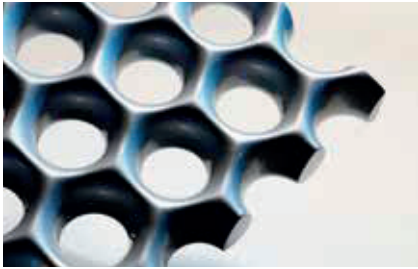
Rotary screen technology.

RotaMesh® screen material: high stability and long-lasting

RotaMesh® screens with a hexagonal 'honeycomb' structure give high stability and are long-lasting. A life-span approaching 500,000 linear meters of printed substrate is not uncommon, which translates into fewer changeovers and therefore increased press uptime. It also makes RotaMesh® screens ideal for repeat orders. It is even possible to re-engrave one screen over 15 times for different jobs, which means outstanding long-term cost savings.



Benefits.



Long lifetime

Unlike all other screen materials, RotaMesh® is a solid nickel sheet with a honeycomb grid of round mesh openings and a non-woven mesh. It has the same, unique, hexagonal structure as SPGPrints' RotaPlate®, a material renowned for its long lifetime.

Extremely sturdy

Any experienced screen maker will recognise immediately that RotaMesh® is an extremely sturdy and stable material that is built to withstand manual handling, thus resulting in less remakes.

Less downtime

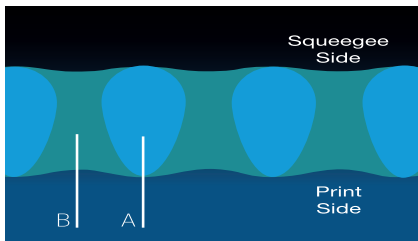
RotaMesh® is very resistant to wrinkling and, unlike woven materials, virtually never breaks or gets damaged during press set-up or printing. Small particles on the web or web splices will not be a worry anymore. For short or long runs RotaMesh® reduces downtime and saves you money.

No back-up screen required

In addition, as the screens last so long and are extremely unlikely to break during the printing process, there is no need to produce a back-up for longer jobs. This cuts your screen costs even further.

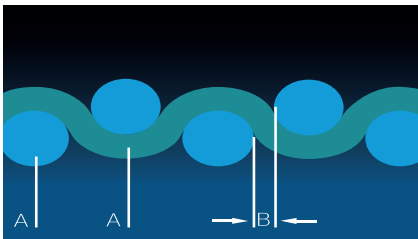
Re-use for repeat orders

With production runs often getting shorter as customers increasingly ask for just-in-time delivery, RotaMesh® gives you the option to re-use the same screen for repeat orders. The extremely stable hexagonal mesh can withstand being washed several times, which obviously saves you the time and money that would be required to make a new screen each time.



RotaMesh®

A = Wall B = Mesh opening



Example of a Woven mesh (no RotaMesh®)

A = Thread B = Mesh opening



Rotary screen solutions.

With SPGPrints' RotaMesh® patented screen material, you get an exceptionally reliable, longlasting and highly accurate means of screen printing on a wide range of web widths.

High accuracy, perfect registration

RotaMesh® screens are manufactured by electroforming and consist of 100% non-woven nickel. The result is a unique, strong hexagonal structure that gives exceptionally high stability, allowing to print with perfect registration. This stability also enables printing large web widths.

Constant quality

The unique shape of RotaMesh® screens brings you constant quality. The screen is very flat at squeegee side, which minimises wear on screen and squeegee, prolonging their lifespan and reducing machine down-time. In addition, the holes are wider at the print side, creating better flow conditions for the ink and consequently improving productivity.

Reliability

The SPGPrints' RotaMesh® screens of today are the result of more than 70 years of experience and innovation in rotary screen printing solutions. RotaMesh® screens assure a top quality, an extremely high degree of standardisation - screen after screen consistency - and continuity in your production process.



RotaMesh® specifications and related properties.

Characteristic		40	40	75	75	125	165	195	215	215	305	305	305	305	405
Plate thickness (μ)	t.b.d	120	80	150	125	100	100	100	80	80	80	80	80	80	80
Open area (%)	t.b.d	50	24	40	32	15	21	18	25	21	17	13	11	8	17
Mesh opening (μ)	t.b.d	550	300	214	192	79	71	55	59	54	34	30	28	24	27
Maximum particle size* (μ)	t.b.d	190	100	71	64	26	24	18	20	18	11	10	9	8	9
Resolution (μ)				350	350	225	160	140	125	125	100	100	100	100	80
Theoretical Wet ink deposit (μ)	250-100	60	19	60	40	15	21	18	20	17	14	10	9	6	14

* Spherical particles

Kindly let us advise you: info@spgprints.com

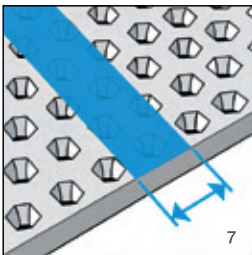
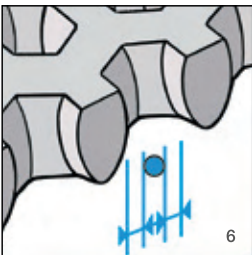
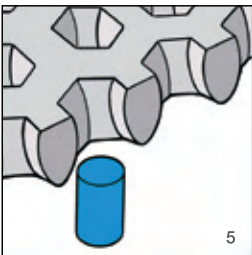
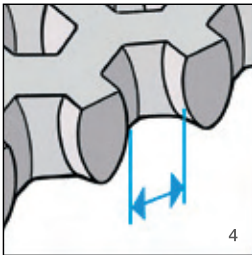
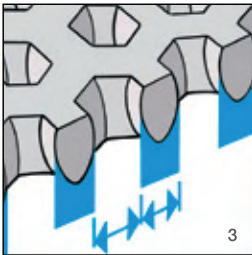
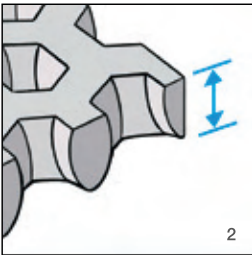
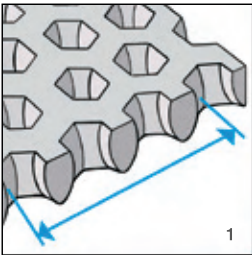
Recommended RotaMesh® applications.

	40	40	75	75	125	165	195	215	215	305	305	305	305	405	
Fine linework & text												+	++	++	+
Coarse linework & text					+		+	+	+	++	++	++			
Opaque solid, linework & text						+	+		+	++	++	+			++
Opaque solid					+	+	+	++	++	++	+				
Haptic				++		+									
Tactile solid, linework & text			+	++				+							
Braille / Tactile linework & text			++*												
Glitter / Particles	++	++													

* Provided with corresponding EOM

+ Good ++ Preferred

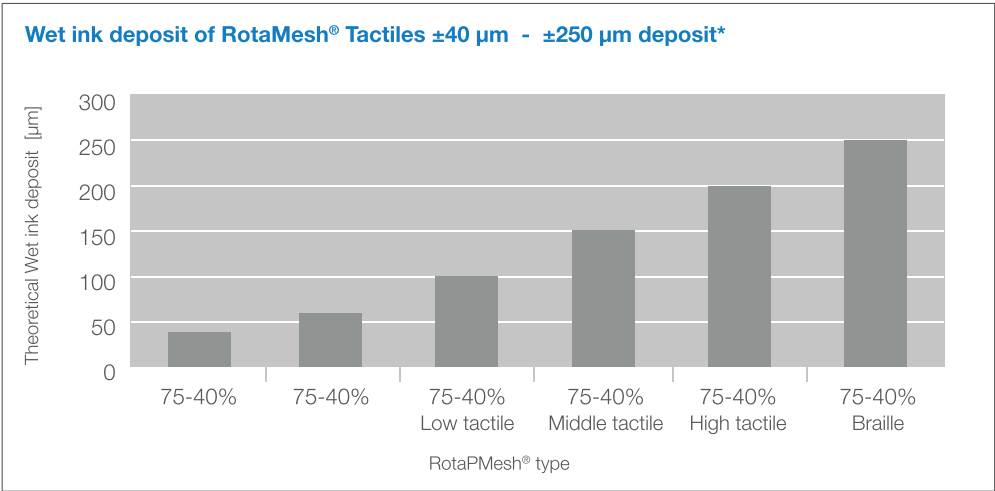
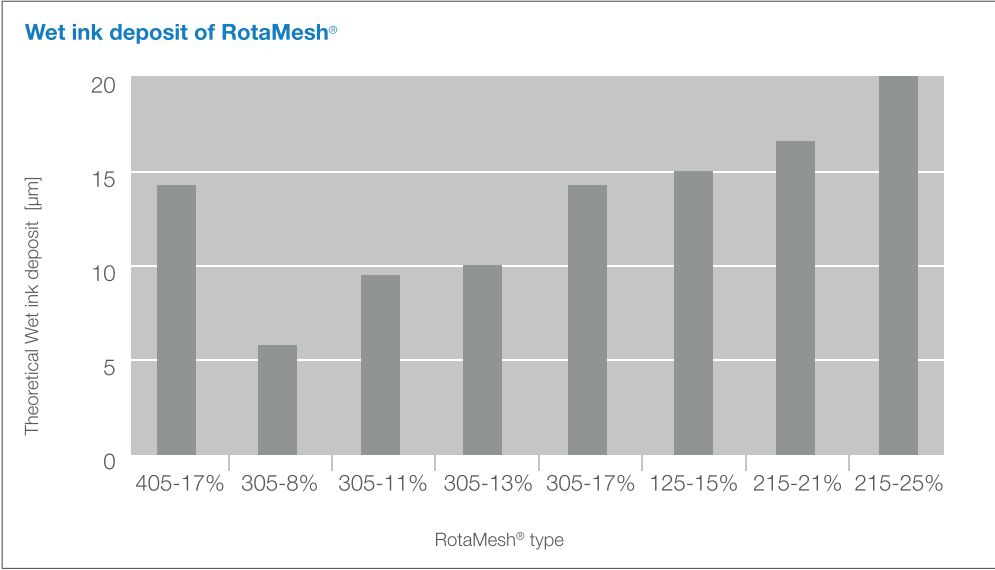
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- 1 Mesh/linear inch
- 2 Thickness
- 3 Open area
- 4 Mesh opening
- 5 Wet ink deposit
- 6 Maximum particle size
- 7 Resolution

RotaMesh®

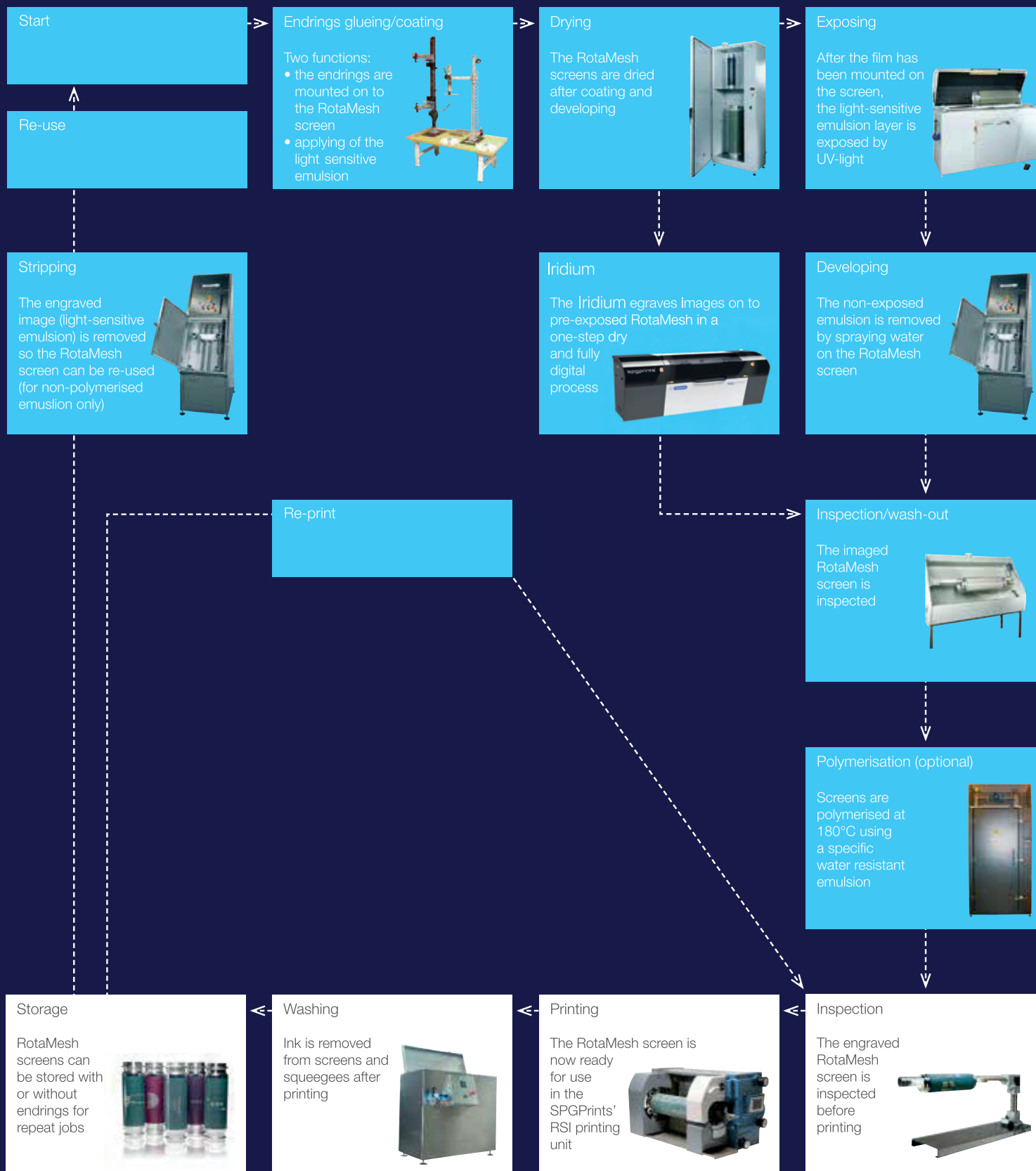
characteristics & performance.



* Depending on applied emulsion

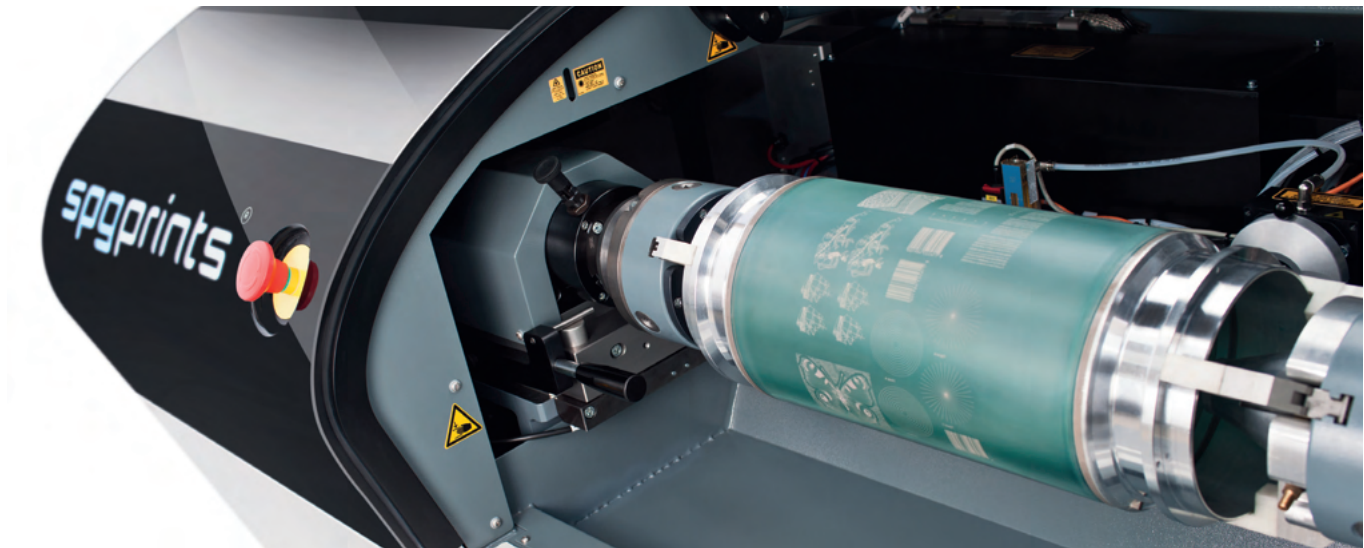
RotaMesh®

Pre-press & printing Workflow.



RSI Pre-press process

RSI printing process



RotaMesh® Pre-press process.

Greater accuracy and repeatability

SPGPrints has developed specialised Pre-press equipment for every relevant step in the screen making process, ensuring optimal performance in terms of accuracy and repeat-ability.

A system that suits your needs

By following a completely modular design concept, the screen making system can be composed to suit your needs for narrow web, mid web or semi-rotary.

Quick start with the RSI®

To make a quick start, every RSI® Pre-press system is delivered with a starters kit. This kit includes items like chemical tanks, chemicals, a spray gun, support blocks for screens and a balloon set.

Iridium - digital engraving

Imaging using Iridium offers the most cost and time savings. Iridium eliminates a substantial part of the screen making process. The Iridium can easily be integrated into the existing workflow and engraves images on to RotaMesh® in a one-step dry and fully digital process. With the shortest possible time-to-press and perfect reproducibility.



RotaMesh® Pre-press systems.

SPGPrints can provide affordable, yet extremely high quality equipment for practically the entire RotaMesh® screen making process.



Gluer / Coater

- All standard widths available
- Mounting endrings on to the RotaMesh
- Applying the emulsion
- Easy to operate



Drier

- Electrical heated dryer
- Automatic temperature control
- For drying after coating or developing
- Optional for polymerisation a high temperature drier is available
- Easy to operate



Exposer

- Conventional exposer for RotaMesh



Stripper / Developer

- Combination unit
- Develops the RotaMesh after exposing
- Strips the RotaMesh for re-engraving



Wash-out booth

- Inspection unit for the RotaMesh screen



Tooling

- Several tools for making a RotaMesh screen



Constant quality

Every single meter has the exact same specifications



40 - 405 mesh

From Braille and tactiles to the finest texts:
you can print it with the broad spectrum of
RotaMesh



Point 3 text

Chinese characters, Arabic text or fine lines:
print every detail with RotaMesh



Opaque white

Where in flexo printing 3 layers are needed,
screen printing with RotaMesh can cover it
at once

Benefits of RotaMesh:

- Unique hexagonal structure
- High speed
- Re-usable
- Less down-time
- Upto 500.000 m
- Particle upto 190µ
- Haptic 3D effects
- Glitter



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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