

spg prints®



RotaPlate® screen material
Stronger, Sharper, Superior.

Printing tomorrow.



Rotary screen technology.

For users of woven screen material there is a superior alternative. Switch to SPGPrints' RotaPlate® screen material and greatly increase product quality as well as improving your bottom line. It offers superior performance at each stage of production, from Pre-press right through to washing down.

RotaPlate® screen material: print faster, at higher quality, while saving money

It decreases your operational costs and therefore increases your competitiveness, yet requires no additional investment in your Pre-press equipment and presses. You will get more meters out of your mesh with RotaPlate®.



Benefits.



Long lifetime

Unlike all other screen materials, RotaPlate® 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' RotaMesh®, a material renowned for its long lifetime.

Extremely sturdy

Any experienced screen maker will recognise immediately that RotaPlate® is an extremely sturdy and stable material that is built to withstand manual handling, thus resulting in less remakes. It is compatible with all standard screen making equipment.

Less downtime

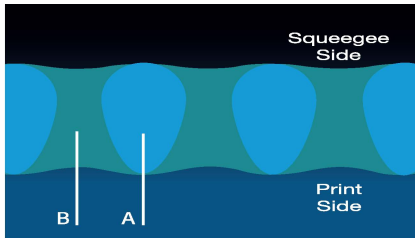
RotaPlate® is very resistant to wrinkling and, unlike woven materials, virtually never breaks or gets damaged during press set-up or printing. Small particles on the web or web splices will not be a worry anymore. For short or long runs RotaPlate® reduces downtime and saves you money.

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.

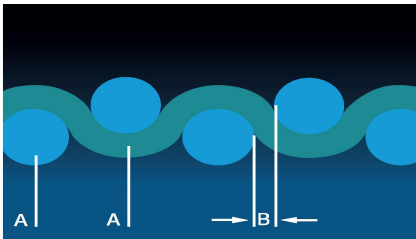
Re-use for repeat orders

With production runs often shorter as customers increasingly ask for just-in-time delivery, RotaPlate® 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.



RotaPlate®

A = Wall B = Mesh opening



Example of a Woven mesh (no RotaPlate)

A = Thread B = Mesh opening

Now available: Rotaplate Wide

The latest innovation in our RotaPlate® product line: RotaPlate Wide. Engineered to meet the growing demand for wider format printing without compromising on quality, speed or reliability. Designed for high-performance rotary screen printing, RotaPlate Wide brings enhanced coverage, improved stability and seamless integration into existing workflows.

RotaPlate Wide

- Same proven RotaPlate® performance
- Widths up to 800mm
- Meshes available in wide format:
355F, 355M, 355S, 305M, 305S, 305SP, 305V, 215V, 125V & 125W



Sharper.

RotaPlate® features a patented process developed by SPGPrints that builds up the mesh material, so that one side of the mesh has a totally different texture and profile than the other. The squeegee side of RotaPlate® is very smooth, giving very low squeegee wear. The printing side, however, has very sharp edges, which leads to sharper printing and crystal-clear results for your customer.

More suitable for ultra-fine details

Each RotaPlate® screen has 40% more holes per square centimeter than a corresponding woven screen. More holes means more precise ink transfer onto the substrate, resulting in sharper fine prints and smoother solids.

Quicker and easier quality checks

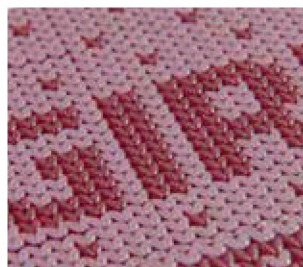
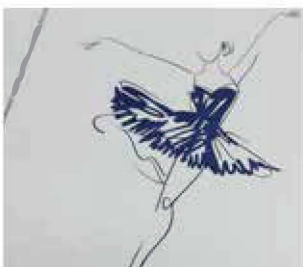
The emulsion used for RotaPlate® was chosen specifically because the human eye is very sensitive to this colour. Pre-press operators appreciate better contrast during the development process and this enables them to check fine details more easily before releasing the screen for printing.

Superior.

Application support

We offer a full service package ranging from installation to application support and training. Our team of experts provides in-depth advice on specific production related matters on site. SPGPrints also has a Technology Center where customers can test new products and methods in an authentic production environment.

All in all, RotaPlate® raises your competitiveness and protects your margins. Every step of the way: your production's on a roll with RotaPlate®.



RotaPlate® specifications and related properties.

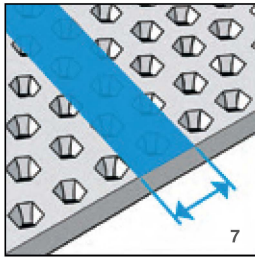
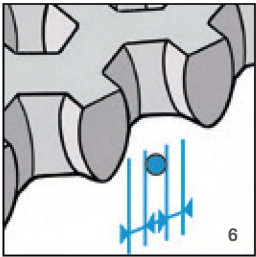
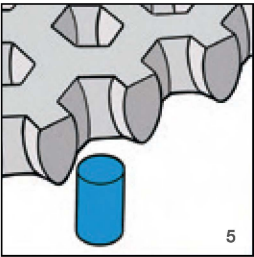
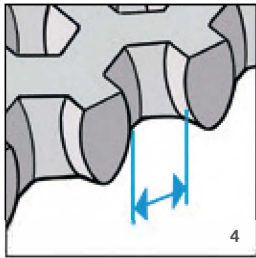
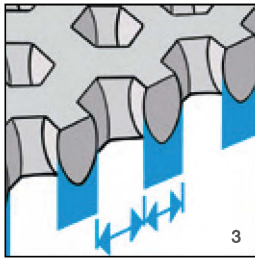
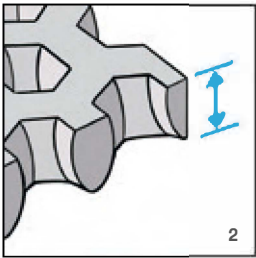
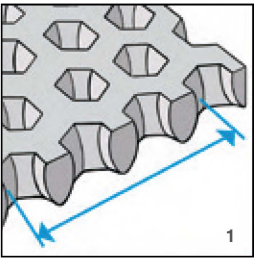
Characteristic	355F	355M	355S	305M	305S	305SP	305V	215V	125V	125W	75X	75Q	75Y	75Z
Plate thickness (μ)	53	56	63	51	63	62	67	69	65	125	130	180	185	315
Open area (%)	11	15	19	17	21	16	22	32	42	43	53	55	53	53
Maximum particle size* (μ)	8	10	11	12	13	13	14	22	50	50	85	80	85	85
Print resolution** (μ)	80	85	90	95	100	105	110	125	225	225	300	300	500	900
Theoretical Wet ink deposit** (μ)	6	8	10	8	10	11	15	18	26	40	80	100	150	250

* Spherical particles ** Depending on ink & print conditions

Recommended RotaPlate® applications.

	355F	355M	355S	305M	305S	305SP	305V	215V	125V	125W	75X	75Q	75Y	75Z
Very fine elements & vignettes	+++	+++	++	+										
Fine linework, text & vignettes			+++	+++	++									
Linework, text & solid			++	+++	++									
Opaque linework & text			++	++	+++	++	+			++				
Opaque solid, coarse linework & text			++	++	+++	+++	++	++	++	+++				
Opaque solid				++	+++	+++	+++	+++	+++					
Tactile solid								+++	+++	+++	++	++	+	
Tactile linework & text										+++	+++	+++	+++	+++
Braille & warning triangles														+++

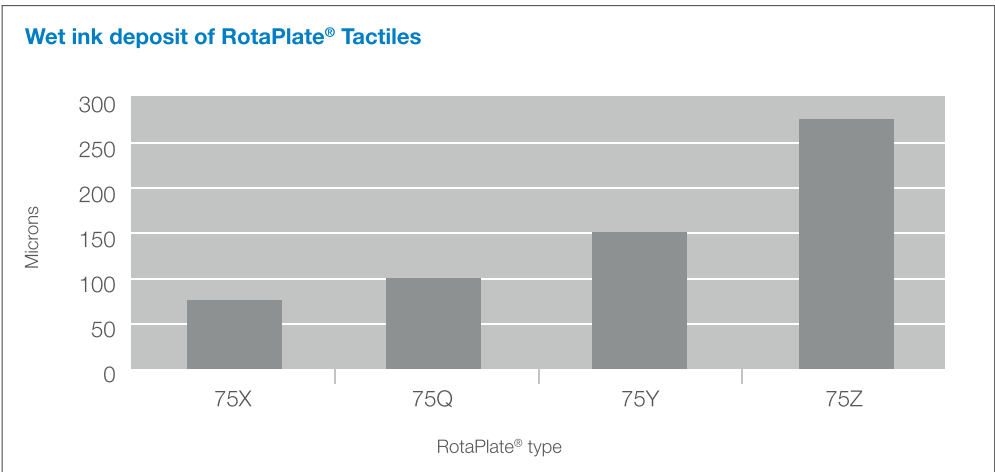
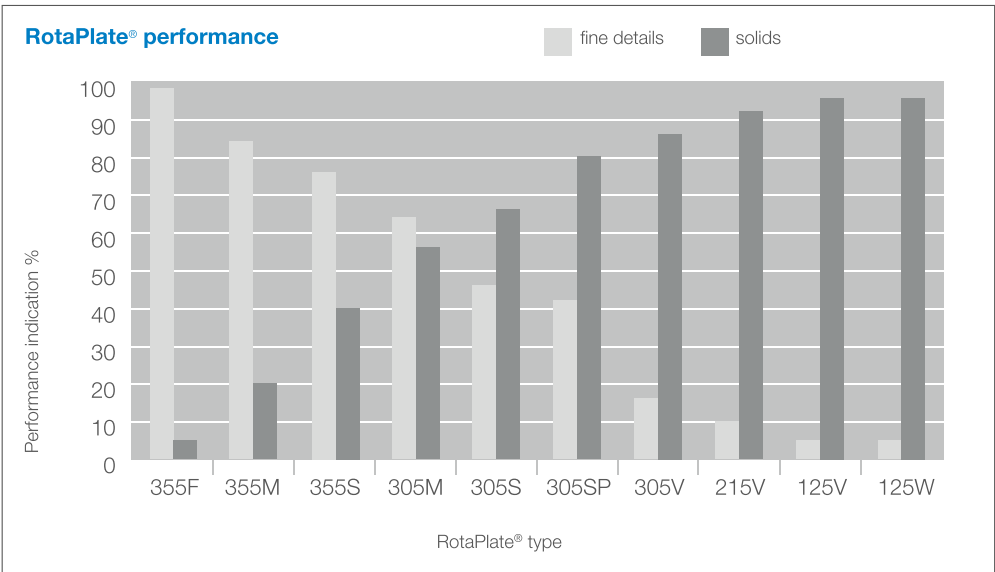
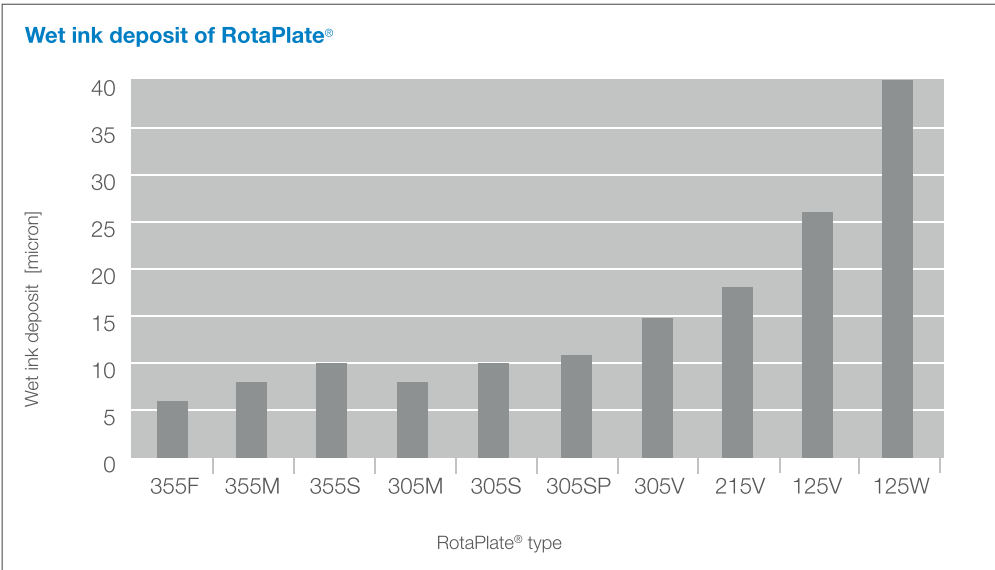
+ Acceptable ++ Good +++ Excellent



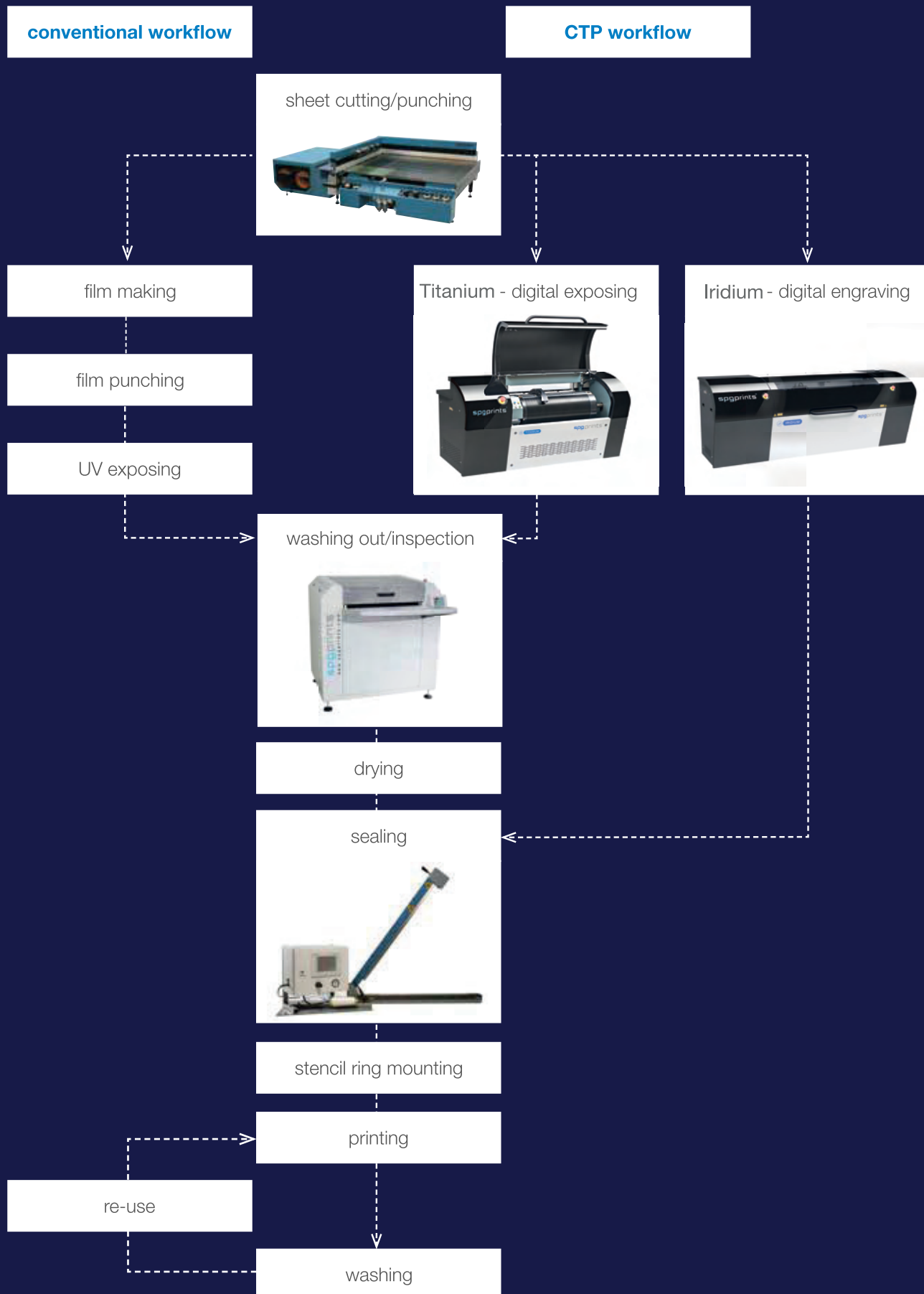
- 1 Mesh/lineair inch
- 2 Thickness
- 3 Open area
- 4 Mesh opening
- 5 Wet ink deposit
- 6 Maximum particle size
- 7 Resolution

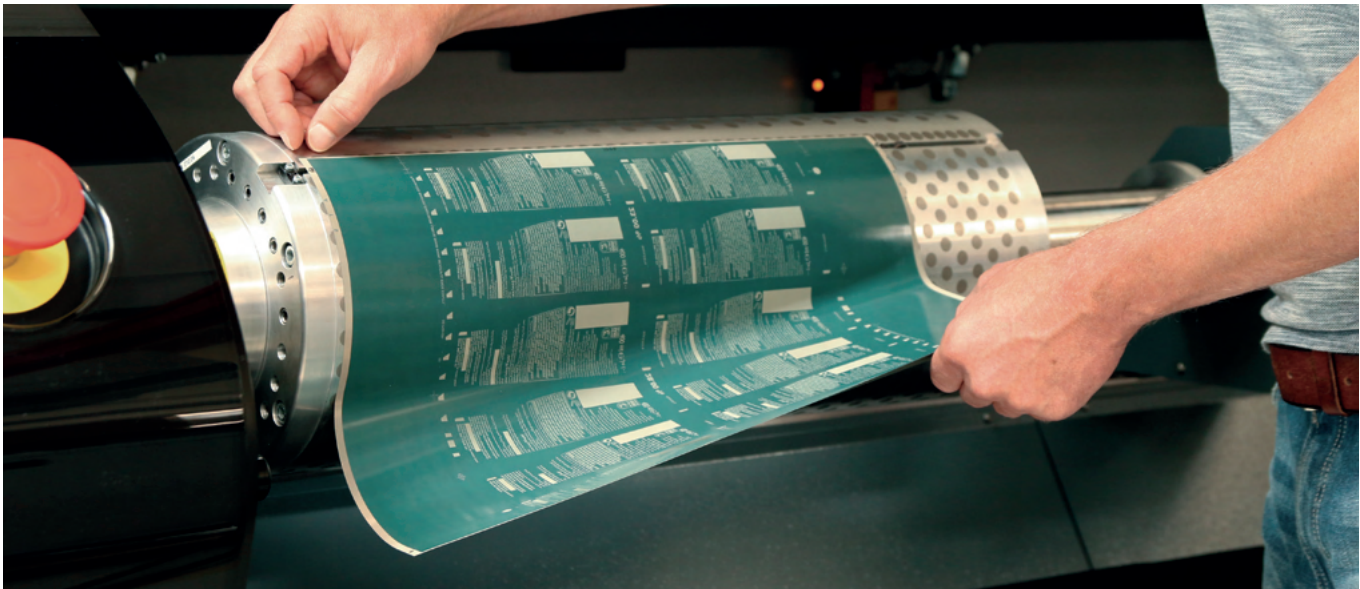
RotaPlate®

characteristics & performance.



RotaPlate® Pre-press Workflow.





RotaPlate® Pre-press process.

The RotaPlate® Pre-press process gives you the best of both worlds: flexible and easy in-house engraving of rotary screens and significant cost savings using traditional or digital workflows. The complete program allows you to tailor a Pre-press system that is ideally suited to your requirements.

Greater accuracy and repeatability

SPGPrints has developed specialized RotaPlate® Pre-press equipment for every relevant step in the engraving process, ensuring optimal performance in terms of accuracy and repeatability.

Significant cost savings

The RotaPlate® Pre-press system is extremely affordable, which makes it ideally suited to the engraving of rotary screen plates. Preparing a RotaPlate® screen will not take you more than twenty minutes.

Titanium – digital exposing



The Titanium eliminates all costs related to film work in the conventional workflow and thus offers substantial cost and time saving opportunities. Laser exposure ensures excellent reproducibility, easy file data archiving and less manual work.

Iridium - digital engraving



Imaging using Iridium offers the most cost and time savings. Iridium eliminates a substantial part of the screen making process. A magnetic drum ensures easy fixation of the RotaPlate printing form to allow digital engraving. Followed by sealing and applying both stencil rings, the screen is ready to print.

RotaPlate® Pre-press systems.

SPGPrints can provide affordable, yet extremely high quality equipment for practically the entire RotaPlate screen making process. From cutting and punching to sealing and glueing.



PR11500 Cut/punch table

- All standard widths available
- Combined cutting and punching of pre-coated RotaPlate material to the specified stencil size
- Punches register holes for easy and accurate film mounting and sealing
- Easy to operate
- One standard size (on customer specification)
- Easily upgradeable to additional sizes
- Dispenser for safe storage and easy handling of pre-coated RotaPlate material included



PR12500 Film punch device

- Ideal for punching locating holes for mounting film onto the stencil prior to exposure
- Easy to operate
- Easily adjustable to all standard printing widths

Exposing/drying unit

- Not delivered by SPGPrints
- SPGPrints can provide a list of suppliers



PR7500 Wash-out booth

- Ideal for washing out RotaPlate stencils after exposure
- Built-in inspection light source
- Easy to operate
- Robust design



PR10500 Seal unit

- The solution to manufacture RotaPlate rotary screens
- Accurate and reproducible
- Easy program control
- Suitable for all print widths and two Semi-Rotary widths



PR1500 Mounting device

- Ideal for fitting stencil rings accurately onto RotaPlate screens
- Accurate and consistent
- Easy to operate
- Compact design
- Mounting devices available for:
 - Gallus 200/230
 - Arsoma 286/330/370/455/480/555
 - RSI MI RotaPlate and RotaMesh

PR1200 Mounting device RSI SR

- Suitable for widths 340 and 420 mm
- Suitable for repeat sizes 14", 15", 19" and 24"



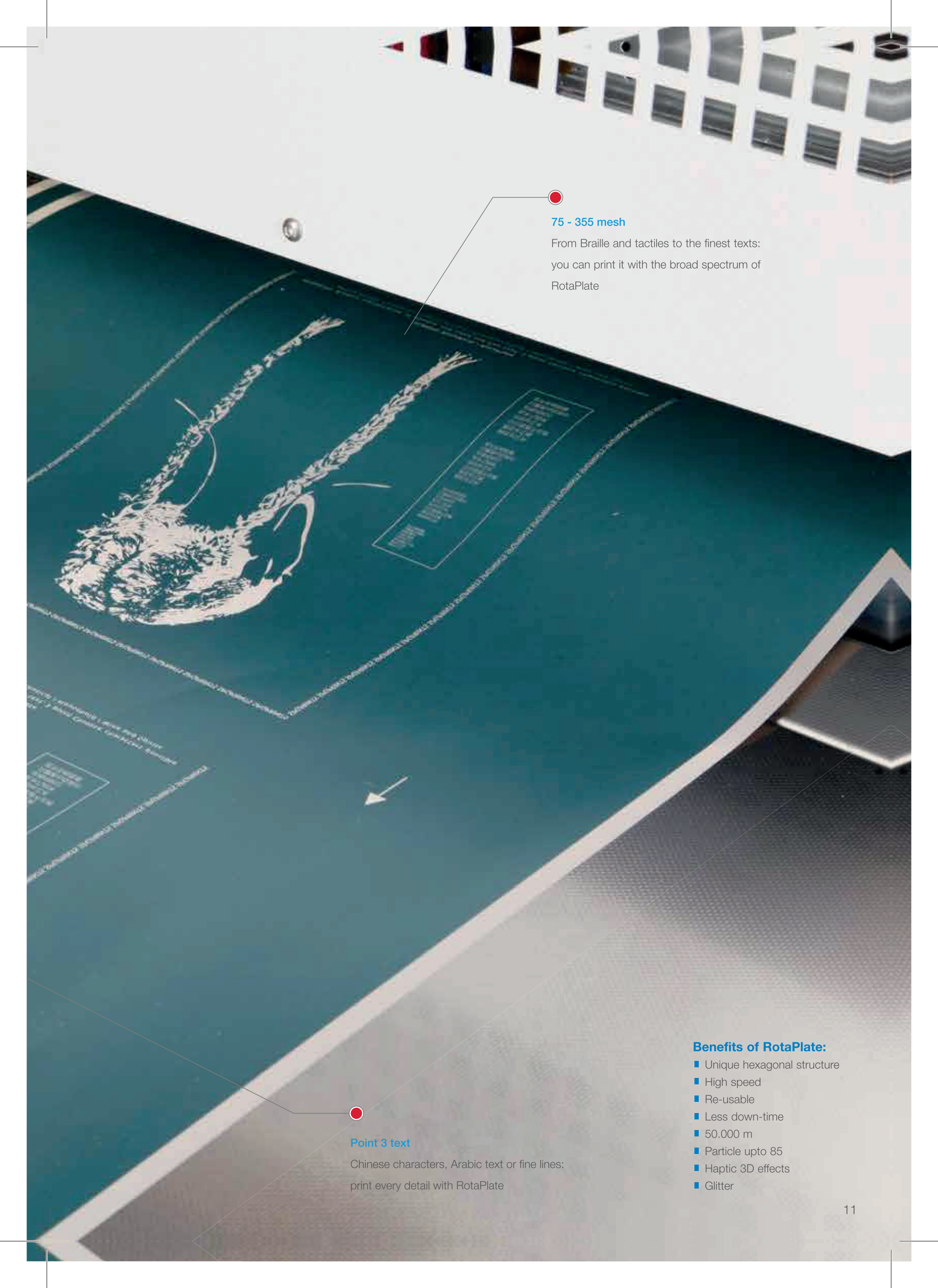
Constant quality

Every single meter has the exact same specifications



Opaque white

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



75 - 355 mesh

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

Point 3 text

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

Benefits of RotaPlate:

- Unique hexagonal structure
- High speed
- Re-usable
- Less down-time
- 50.000 m
- Particle upto 85
- 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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