

Screening for every printing process



FlexRip

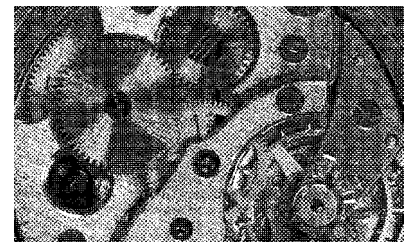
Whether you are printing brochures in offset litho, food pouches in flexo or one of many other print applications, screening is a critical factor in print quality. EskoArtwork has the widest range of halftone screening technologies, each optimized for specific print processes. Our screening will help you raise imaging quality, broaden your color palette and cut costs: if you are putting color on paper, plastic or any other substrate you should talk to EskoArtwork about screening.

Offset: quality color and ink savings

Concentric Screening: think inside the dot

Concentric Screening™ is a revolutionary technology targeted at quality litho printing applications. Concentric has been proven to increase color saturation and image detail and smoothness. At the same time it improves press stability and significantly reduces ink usage - a factor alone which can provide a quick return on investment in this product:

- ink savings of 5% to 25% have been reported by typical users
- press stability: makes it easy to print to standards or apply color management
- increased color gamut
- sharper images than AM screening
- smoother images than FM screening

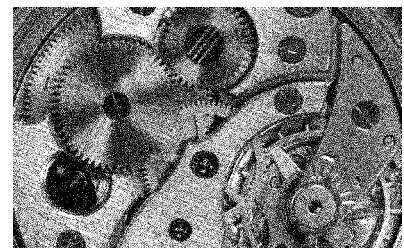


Organic and Monet: world class stochastic screening

Stochastic (FM) screening completely eliminates moiré and rosette patterning from your images.

EskoArtwork offers Organic Screening – a modern second order pattern optimized for offset printing and available in a range of dot sizes. In addition, we have Monet Screening also in a range of dot sizes, optimized for both offset and flexo print applications.

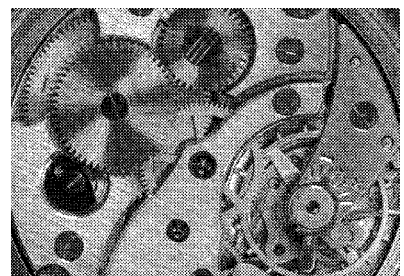
Altogether, stochastic screening from EskoArtwork will give you **razor sharp images**, with a **wider color gamut** and a **stable result in print**.



Conventional AM Screens and HighLine

Conventional AM screens from EskoArtwork have been the backbone of quality print production around the world for many years. Paragon AM screening minimizes moiré and gives a stable rosette, while offering a vast range of dot shapes and angles to suit all applications.

HighLine Screens allow you to produce much higher screen rulings at traditional output resolutions – for example, a 423 lpi screen can be imaged at only 2400 dpi resolution. HighLine Screens can also image standard screen rulings at lower output resolutions, boosting productivity without any compromise on quality.



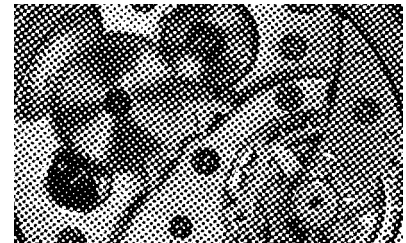
Flexography: World-leading quality

Expertise in flexo has always been a major strength of EskoArtwork. The knowledge and field experience built up over many years have allowed us to offer unique products with a very clear and rapid ROI. At the heart of all these products is the focus on print quality enhancement, print consistency and predictability.

Smooth vignettes that print to zero

With the latest developments in screening technology, the tonal range possible with flexo has been extended into the highlights. Artwork that in the past could only be printed easily using offset and gravure can now be done with flexo, including vignettes and drop shadows that fade to zero, and images with enhanced highlight detail.

HD Flexo is an option available with our CDI output devices combining enhanced optics with easy-to-use screening that is pre-tuned and qualified for popular flexo plate types. If you prefer a customized approach, our color excellence consultants can deliver a **Spot-On tuning** project that will apply our toolbox of **PerfectHighlights** technology to your specific needs.



HD Flexo for the finest quality in flexo today.

Groovy and Plate cell for crisp, dense solids

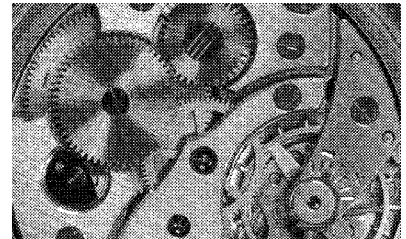
Tiny plate cells (similar to anilox cells) or grooves are placed by the RIP into solid areas: in many flexo printing applications this ensures that solids print with a smoother ink layer. The result is that less ink needs to be used, more saturated colors can be printed, and the “halo effect” around type can be dramatically reduced. A cell centred or groovy transition effect is also used, to make sure that shadow tones blend smoothly into the solids.



Groovy Screens reduce ink consumption and enhance solid area rendering.

SambaFlex and a range of dot shapes

EskoArtwork offers a range of AM dot shapes orientated for flexo, including the traditional circular dot, the fogra round dot and the “double-circular” dot: the optimal choice of dot can help to reduce mottling in the mid-tones. SambaFlex transitional screening has proven its reputation in the market for more than 10 years as a cost-effective way to extend highlight quality and consistency in flexo.



SambaFlex improves quality and consistency in flexo.

Eccentric Screens for corrugated

The fast growing corrugated market has specific characteristics such as very low screen rulings, challenging substrates and registration issues. Eccentric Screening was developed specifically to deal with the very visible rosettes that occur at lower screen rulings, particularly in four color images.

Eccentric Screens come with variable eccentricity that can be freely chosen to make **rosettes much less visible** and to create much more **stable and predictable print results**. In certain cases the rosette disappears completely which gives the impression of a higher screen ruling.

Eccentric Screening reduces dot gain with less tonal jumps as a result. The flexibility of Eccentric Screens makes it the ideal choice for sharpness and smooth variation in images. A choice of no less than 5 different Eccentric Screens brings the flexibility to meet flexo and corrugated printing requirements.

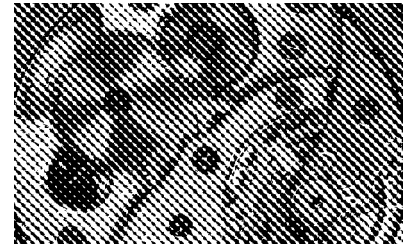


Eccentric Screens are the ideal choice for sharpness and smooth variation in images.

Silk screen and gravure too

The main problem in screen printing is the interference of the dots with the mesh structure of the silk screen. While the Rugby dot, with its “silk screen perfect” chains, **dramatically increases the print quality**, DynaCell technology empowers the printer to **avoid mesh conflicts**. In many cases, screen printers also combine Monet and Rugby in the same job and so take full advantage of FlexRip’s unique functionality.

The “hello” dot offers the traditional shape used in gravure and has been optimized to avoid effects such as the breaking of the wall in shadow areas.



Rugby dot – designed specifically for silk screen printers.

PressSync: curves for the rest of us

Screening goes hand in hand with curves: dot gain compensation curves for plate, press adjustment curves, curves to match print standards such as SWOP or GRACoL... the list goes on. Creating and managing all these curves has never been an easy job, until now. PressSync gives you a simple effective system to:

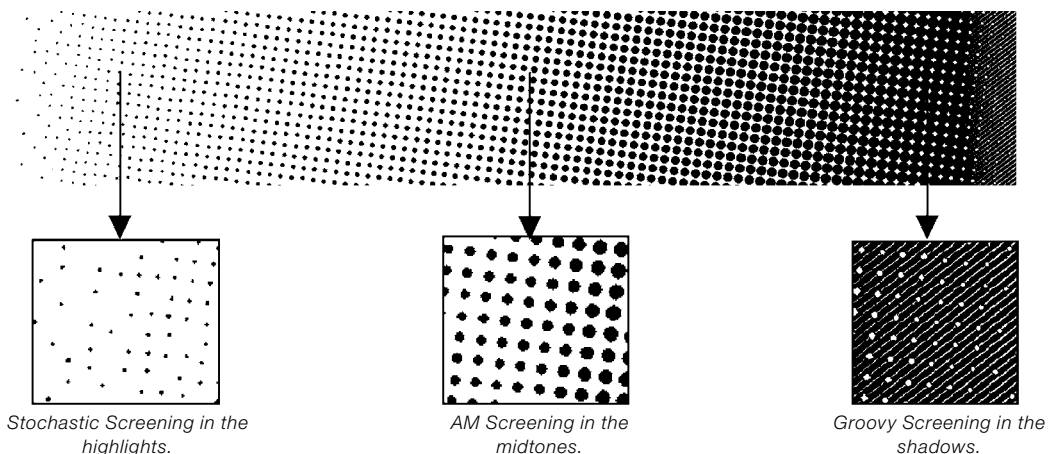
- match print standards: GRACoL, SWOP or your own
- determine curves from production sheets
- make adjustments intuitively, by measurement, or both
- make color management simpler and more accurate
- greatly simplify communication with all team members

PressSync is integrated into our RIP products and also includes a powerful yet easy to use set of tools for determining your curves and tracking any changes from the standard printing condition. You could call it a “GPS for PrePress”.

Customized screening via ScreenManager

ScreenManager is a tool that combines Esko screening technologies with each other into your own customized screening collection. You will stay a step ahead of your competition while fine-tuning and optimizing print quality to your company’s capabilities. Secure your business by offering a truly unique screening set.

Alternatively, under our Spot On tuning program, our color excellence consultants will tune and optimize a custom screen to your needs, allowing you to implement process improvement taking advantage of our expert knowledge – and with no risk to yourself.



Standard dot shapes



Round (Fogra) – Traditional offset screen, also flexo



Circular (Euclidian) – Primary flexo screen



Double Circular – Alternative shape for flexo



Elliptical – Offset

Special dot shapes



Helio – Autotypical/chemical helio



Helio concave – Autotypical/chemical helio



Rugby – Silk screen printing



Eccentric

High ruling and stochastic



Concentric - Offset



Organic - Offset



Monet - Offset/Flexo

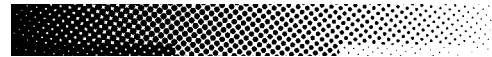


HighLine & HighLineXM - Offset

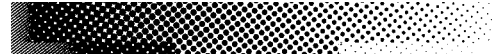
Hybrid and transitional screens



Perfect Highlights – Flexo



SambaFlex award-winning transitional flexo screens



Groovy Screens – Flexo

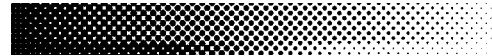


Plate cell patterns/Cell centred – Flexo

Screening in the RIP and workflow

EskoArtwork screening is integrated into our FlexRip and NexusRIP software: RIPs which can drive all your typical output devices with high performance and reliability. The RIPs have a direct link to FlexProof/E (our market leading proofing solution) providing color accurate proofs – including dot proofs if required – made by the same RIP. Consistency and a proof to press match is the outcome.

In addition, object screening controls are available in our prepress editor and workflow products such as ArtPro, PackEdge and DeskPack. Different screens can be assigned to each object in the job: for example a conventional screen for images, and a transitional screen for vignettes. This information travels seamlessly through the workflow to the RIP, giving you absolute control on the screening process to optimize it for your work.