

Anicolor Technology

New Approaches in Short-Run Printing.
Faster, Better, More Cost-Effective Production.

HEIDELBERG

Revolutionary Anicolor Inking Unit Technology.

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The Anicolor Recipe for Success.

Fast Production of Short Runs – and on to the Next Job!

More cost-effective with Anicolor. Runs are getting shorter and shorter and job changes are increasing all the time. Innovative Anicolor® technology from Heidelberg® is a revolutionary solution for competitive short-run printing, offering both unbeatable value for money and quality.

The technology has long been established on the 35 × 50 centimeter (13.78 x 19.69 inch) format market through the Speedmaster® SX 52 Anicolor. And now Heidelberg is also offering all the benefits of Anicolor for the medium-size format of 50 × 70 centimeters (19.69 × 27.56 inches) on the high-performance Speedmaster XL 75 platform.

The next stage in the Anicolor revolution. Anicolor opens up enormous potential savings for very short runs, particularly in standardized commercial, label, and packaging printing (e. g. in the pharmaceutical sector). On average, it means up to 90 percent less waste, up to 50 percent shorter makeready times, and up to 50 percent higher productivity.

Thanks to rapid and stable inking, print jobs are ready for the sales run after just a few sheets. Top print quality can be achieved throughout with operation that is simplicity itself and without complex settings. The Anicolor inking unit ensures uniform inking and high stability in production.

Solution for narrow timeframes. Anicolor accelerates processes significantly, delivering greater throughput in a shorter time and in consistently high quality. With options to add UV equipment or sheet reversal, jobs can be produced and finished directly. Anicolor technology really comes into its own with special applications such as printing spot colors, metallic inks such as gold and silver, and special coatings.

Unbeatable Anicolor benefits:

- Minimal makeready times, cost savings through reduced waste
- High levels of standardization and automation in the printing process
- Rapid, uniform inking and high stability in production
- Cost-effective production of short runs in offset quality
- Perfect in combination with digital printing to produce personalized, numbered or imprinted products
- Printing of spot colors, metallic inks, and UV and special coatings supported

Greater Speed and Productivity for the Medium Format, too.



The Speedmaster XL 75 Anicolor meets high demands, delivering top quality in short runs with fast and cost-effective production.

Speedmaster SX 52 Anicolor.

Fast Inking-Up and Minimized Makeready Times.



Inking unit technology of the future. The Speedmaster SX 52 Anicolor high-performance press is available with up to ten inking units – with or without a coating unit – as a straight-printing press, as a perfecting press, and with UV equipment. Anicolor takes this cutting-edge machine to the next performance level – with even shorter makeready times and a further significant increase in productivity.

Exceptionally fast inking-up. Anicolor is a short inking unit that achieves uniform inking unbeatably quickly. The ink setting work required is minimized, even with jobs involving different levels of ink consumption, because zoneless inking makes for extremely simple operation without spending a lot of time on settings.

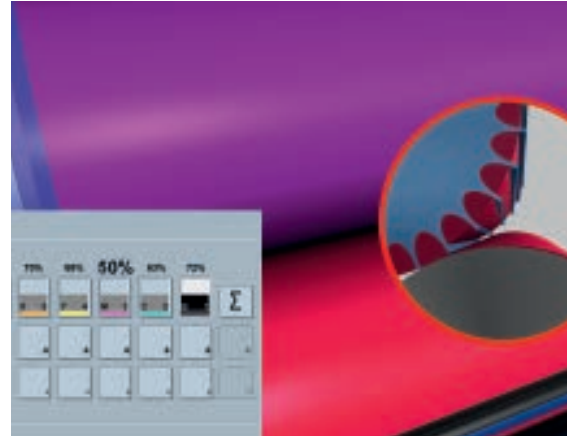
Anicolor technology controls ink volumes across the entire sheet and delivers maximum color stability throughout the run. There is one single format-size inking form roller. Screen rollers with individual temperature control ensure stable inking and reproducible quality at all times – sheet after sheet and job after job. This makes Anicolor inking unit technology the ideal solution for standardized printing.

Anicolor short inking unit at a glance:

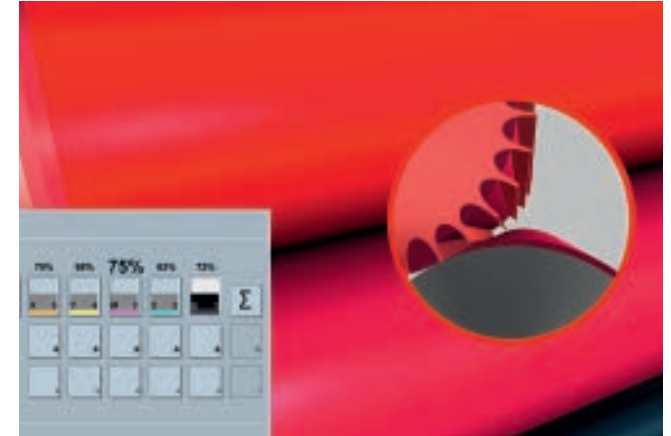
- Engraved screen roller
- Format-size inking form roller
- Inking unit temperature control for rapid inking and stable ink feed
- Straightforward switching of ink chambers for rapid ink changes



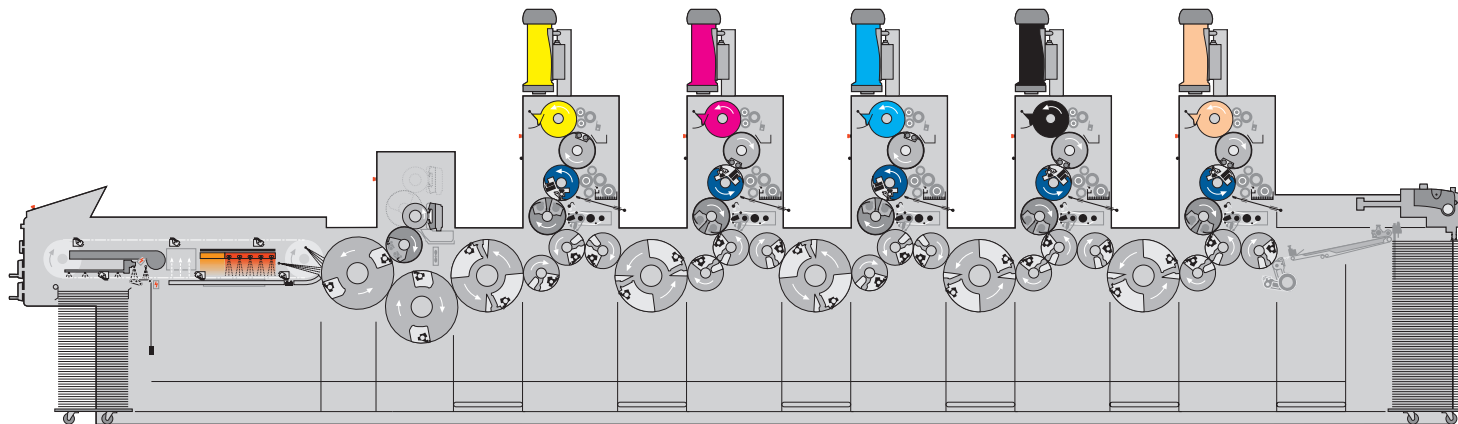
Ink chamber blade ensures precise screen roller filling



Low ink transfer at a low screen roller temperature



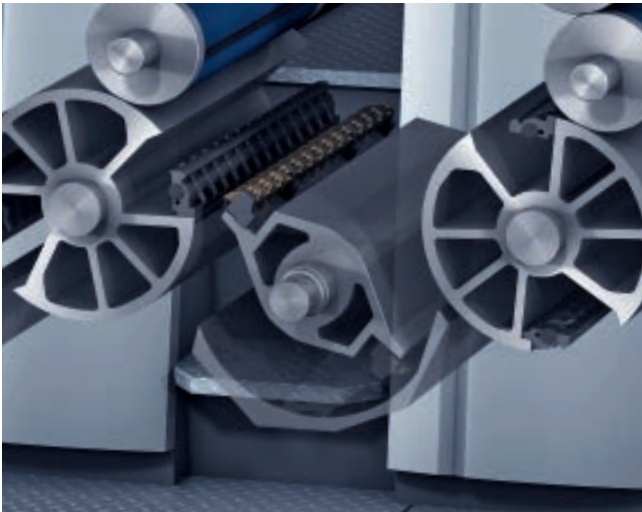
High ink transfer at a high screen roller temperature



Speedmaster SX 52 Anicolor – for a higher throughput in less time and minimal paper waste

Speedmaster XL 75 Anicolor.

The Ideal Platform for Short Runs in the Medium Format.



Perfect sheet travel from feeder to delivery with automatic adjustment

The ideal platform for short runs in the medium format. The Speedmaster XL 75 is perfect for fast, cost-effective short-run production in commercial, packaging, and label printing. Its fully automatic sheet travel from feeder to delivery, fully automated plate changes with AutoPlate Pro, and flexible coating unit are all ideal for Anicolor technology.



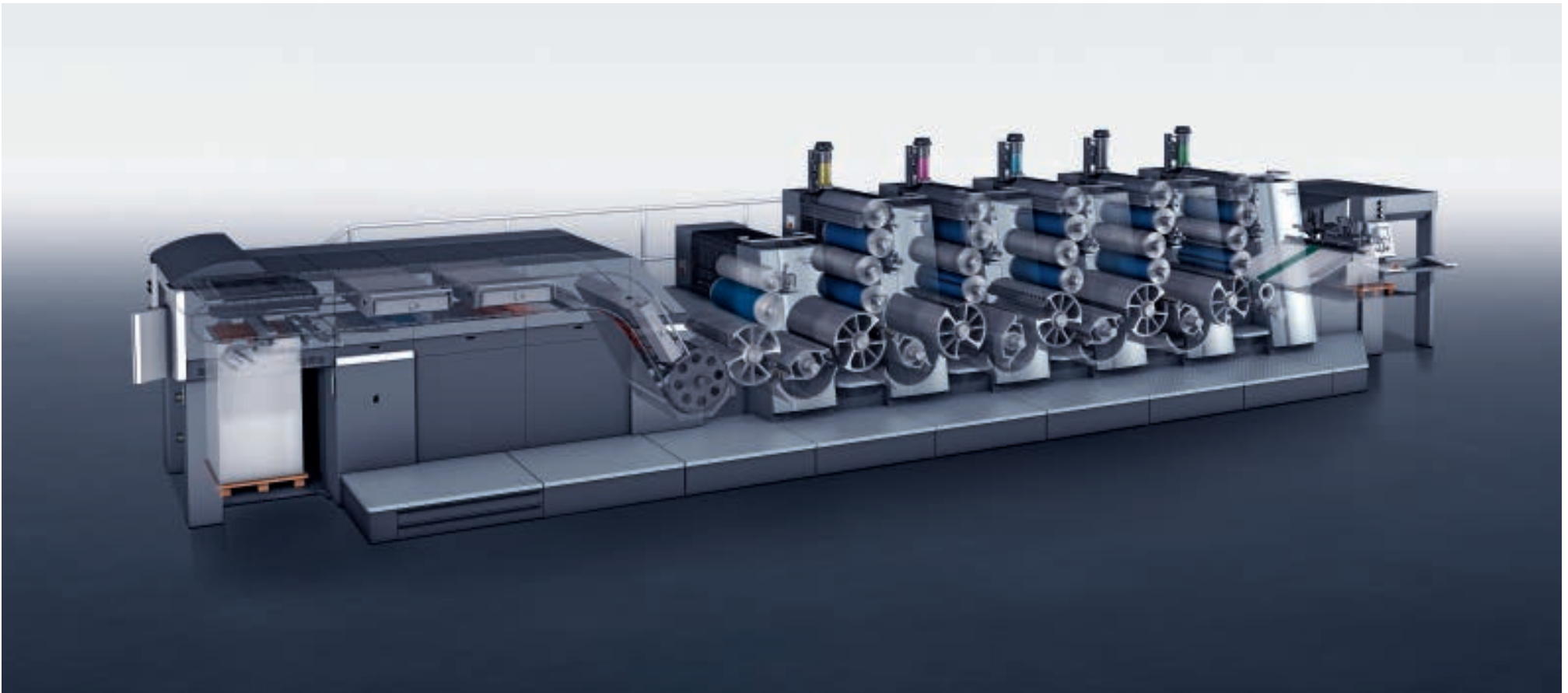
Flexible coating unit for a variety of applications

Format-size screen and inking form cylinders ensure fast, clean ink transfer, while smooth rotation via bearers helps deliver a high-quality result. Color matching can be performed in a matter of moments using the screen roller temperature control function – and the effect is immediate, without the need for any further materials.



Anicolor inking unit – for rapid ink transfer

It is possible to switch to spot colors in an instant. The ink chamber can be removed completely from the press and replaced with an ink chamber that has been prepared in advance. This is precisely what makes Anicolor technology so attractive to packaging and label printers with frequent changes in spot colors. Switching back to process colors takes no time at all, either – the ink chambers used previously can simply be re-installed.



Speedmaster XL 75 Anicolor – peak performance in terms of productivity, quality, and cost-effective operation

Speedmaster XL 75 Anicolor at a glance:

- Up to 90 percent less paper waste
- Fast, uniform inking
- High level of automation minimizes setup times
- Full range of automatic presetting options
- Fully automated plate changing with AutoPlate Pro
- Optimized washup programs for fast and thorough cleaning
- Top productivity and large variety of surface finishing options
- Wide range of printing stock up to 0.8 millimeters (0.031 inches) thick
- Flexible press configurations tailored to practical needs
- Star System peripherals perfectly coordinated with the press

Amazing Cost-Efficiency with Anicolor.

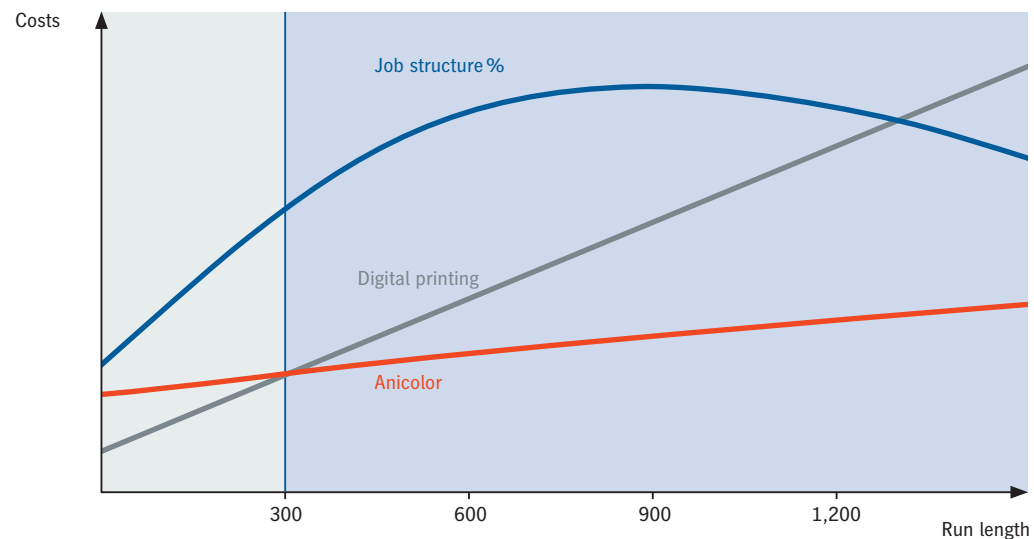
Cost Benefits with Short and Long Runs.

Increasingly cost-effective runs. Even with short and very short runs, Anicolor presses can easily match digital systems on price, while also delivering 100 percent offset quality. This is how the extremely cost-effective combination of digital and Anicolor works: Digital presses from Heidelberg offer cost benefits for very short runs, but the Anicolor press is clearly superior from runs of just a few hundred sheets upward – and the longer the run, the greater its edge. Anicolor is thus able to demonstrate its specific strengths to the full with both short and long runs.

Cost-effective production with Anicolor:

- Anicolor is more economical from just 300 sheets
- Lower costs per job
- Up to 50 percent higher production capacity

Cost benefits with Anicolor



The majority of jobs printed each year have run lengths exceeding 500 sheets.

Up to 90 Percent Less Waste. Lower Material Costs and Higher Overall Productivity.

A reduction in paper waste of up to 90 percent is the main cost-efficiency benefit offered by Anicolor technology. It not only cuts material costs but also makes job changes much faster. The Speedmaster XL 75 Anicolor ultimately offers an overall production capacity up to 50 percent higher than normal offset technology, which means it can also produce around 50 percent more jobs each year.

Just one example. With an average of 20 jobs per shift, cutting startup waste by 200 sheets adds up to a total saving of around EUR 240. Based on two shifts a day and 250 working days a year, this results in annual savings of some EUR 120,000.

Digital and Anicolor combined. Combining digital and Anicolor production delivers even greater flexibility when printing short runs. Elements such as personalized invitations or parts of flyers or mailings adapted to different target groups can be printed on the digital press and the rest of the product on the Anicolor press. Print shops can choose between offset and digital production on a job-by-job basis or use whichever printing method is more cost-effective for advance runs, main production runs, and reprints.

Waste savings with the Speedmaster XL 75

	Example: 170 gsm art paper	Your example:
Substrate	170 gsm	
Sheet format	50 × 70 cm (19.69 × 27.56 in)	
Costs per sheet	EUR 0.06	
Reduction in startup sheets	200 sheets	
Saving per job	EUR 12	
Jobs per shift	20	
Saving per shift	EUR 240	
Shifts	2	
Saving per working day (WD)	EUR 480	
Working days per year	250	
Saving per year/240 WDs	EUR 120,000	
Years of production	6	
Total saving	EUR 720,000	

The Anicolor Business Model.

Maximizing Flexibility and Making a Wider Job Spectrum Cost-Effective.

One step ahead. Outperforming the competition and offering customers unbeatable solutions is the recipe for success in short-run commercial and packaging printing. With revolutionary Anicolor inking unit technology from Heidelberg, you are ideally equipped for success, achieving even higher print outputs even faster without having to compromise on quality.

Anicolor also delivers a whole host of benefits for your business model. Spot colors are easy to print and, thanks to an integrated coating unit, jobs can go virtually straight to postpress. As a result, you are highly flexible and can offer a wider range of applications. See the print shop user report for a detailed account of just what can be achieved.



drucken123 – Offset-Druck Müller from Aschaffenburg – with the Speedmaster SX 52-5+L Anicolor

Anicolor Covers a Variety of Applications. The Technology for Amazing Flexibility – Job After Job.

Recipe for market success. Ever shorter runs, higher demands in terms of the number of variants, language versions, special effects etc., ever shorter production times and extremely tight deadlines – these are the current conditions on the print market that all suppliers need to live with and make the best of. Speedmaster Anicolor presses are a big help in this respect.

Some jobs printed on conventional presses require more sheets for startup than for the actual run. In such cases, an Anicolor press fits perfectly into the business concept. It enables print shops to make a profitable move into the kind of run lengths that were previously the preserve of digital printing, while still offering 100 percent offset quality.



Anicolor supports an extremely wide range of applications.

Example of the packaging market. Due to increasing diversification, the challenging pharmaceutical sector in particular is becoming an important area of application for Anicolor technology. For example, more and more pharmaceutical and healthcare products are being offered in different pack sizes, dosage forms, and active ingredient concentrations. This is cutting run lengths and also increasing the number of printing forms. The Anicolor press produces such variants cost-efficiently in both large and small quantities.

It also prints repeat jobs without color deviations. Even a change in material makes no difference. Whether processing thin paper or card, and whether printing on coated or uncoated paper, the press delivers excellent results.

Variety of applications:

- Efficient label printing
- High-quality packaging
- Sophisticated commercial products
- Straightforward surface finishing options
- Wide range of materials
- Cost-effective special applications
- Straightforward printing of spot colors



Inking-Up at Record Speed. Far Shorter Makeready Times and Minimal Waste.

Sample job 1:

“International Tastes” labels

Press: Speedmaster XL 75-5+L Anicolor

Substrate: 90 gsm label paper

Ink: Saphira Anicolor

Coating: Gloss dispersion coating

Production: Printing with conventional Anicolor process inks plus an Anicolor spot color.

A full-area protective label coating was applied inline via the coating unit.

Job benefits with Anicolor

This label job highlights the improved startup frequency with Anicolor. The print samples show the 5th, 10th, 20th, 50th, and 100th print sheets. The zoneless short inking unit quickly and easily achieves uniform inking without spending a lot of time on ink settings. Make-ready times and paper waste are minimized, too.



“International Tastes” labels

Uniform Inking. Quick and Easy Production in Offset Quality.

Sample job 2:

“Stettenfels” invitation cards

Press: Speedmaster SX 52-4+L Anicolor

Substrate: 300 gsm Algro

Ink: Saphira Anicolor

Coating: Gloss dispersion coating

Production: Printed with conventional Anicolor process inks. The four-color area was given a full-area coating via the coating unit.



“Stettenfels” invitation cards

Job benefits with Anicolor

Even with challenging forms involving cut-outs and high/low ink coverage, the Anicolor short inking unit scores highly. Irrespective of the print motif, it achieves uniform inking over the entire sheet and throughout the run.

Drip-Off Coating. Easy and Impressive Surface Finishing to Stand Out from the Competition.

Sample job 3:

“GinGin Fashion Lookbook” drip-off application

Press: Speedmaster XL 75-5+L Anicolor

Substrate: Lumi Art 170 gsm gloss art paper

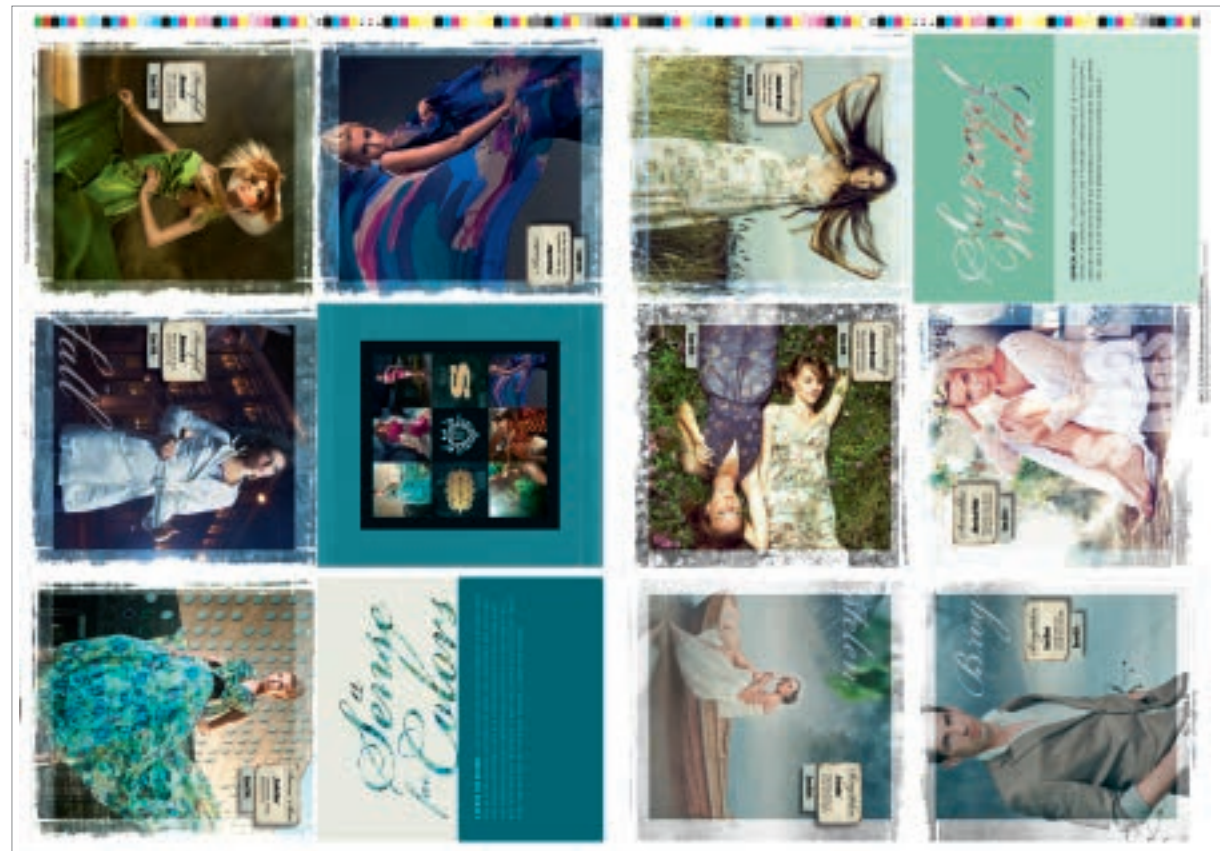
Ink: Saphira Anicolor

Coating: Saphira Aqua Print matt coating,
Saphira gloss dispersion coating

Production: A special-effect coating is applied to matt areas in the final printing unit. The full-area high-gloss coating subsequently applied via the coating unit drips off the matt-coated sections. This maintains the matt effect here, while the other areas have a glossy appearance.

Job benefits with Anicolor

Drip-off coatings are popular special effects in commercial and packaging printing. Anicolor makes it easy for print shops to expand their production and offer surface finishing.



“GinGin Fashion Lookbook” drip-off application

Five-Color Perfecting Printing of Uncoated Paper. Anicolor Processes a Huge Selection of Substrates.

Sample job 4:

“Gustav Vouchers” response cards

Press: Speedmaster SX 52-5+L Anicolor

Substrate: 300 gsm uncoated paper

Ink: Saphira Anicolor

Coating: Matt dispersion coating

Production: Perfecting printing. Conventional Anicolor inks plus a spot color are used as the process inks. A single-sided full-area matt coating was applied inline via the coating unit.

Job benefits with Anicolor

High-quality commercial products are produced on an ever wider range of substrates. The Anicolor press processes a huge range of substrates – from thin paper to materials as thick as 0.6 millimeters (0.024 inches) on the Speedmaster SX 52 and 0.8 millimeters (0.031 inches) on the Speedmaster XL 75.



“Gustav Vouchers” response cards

Special Applications – Gold/Silver/Spot Colors on Thin Paper.

Impressing the Market with Cost-Effective Special Applications.

Sample job 5:

“Aromatico” labels

Press: Speedmaster XL 75-6+L Anicolor

Substrate: 90 gsm label paper

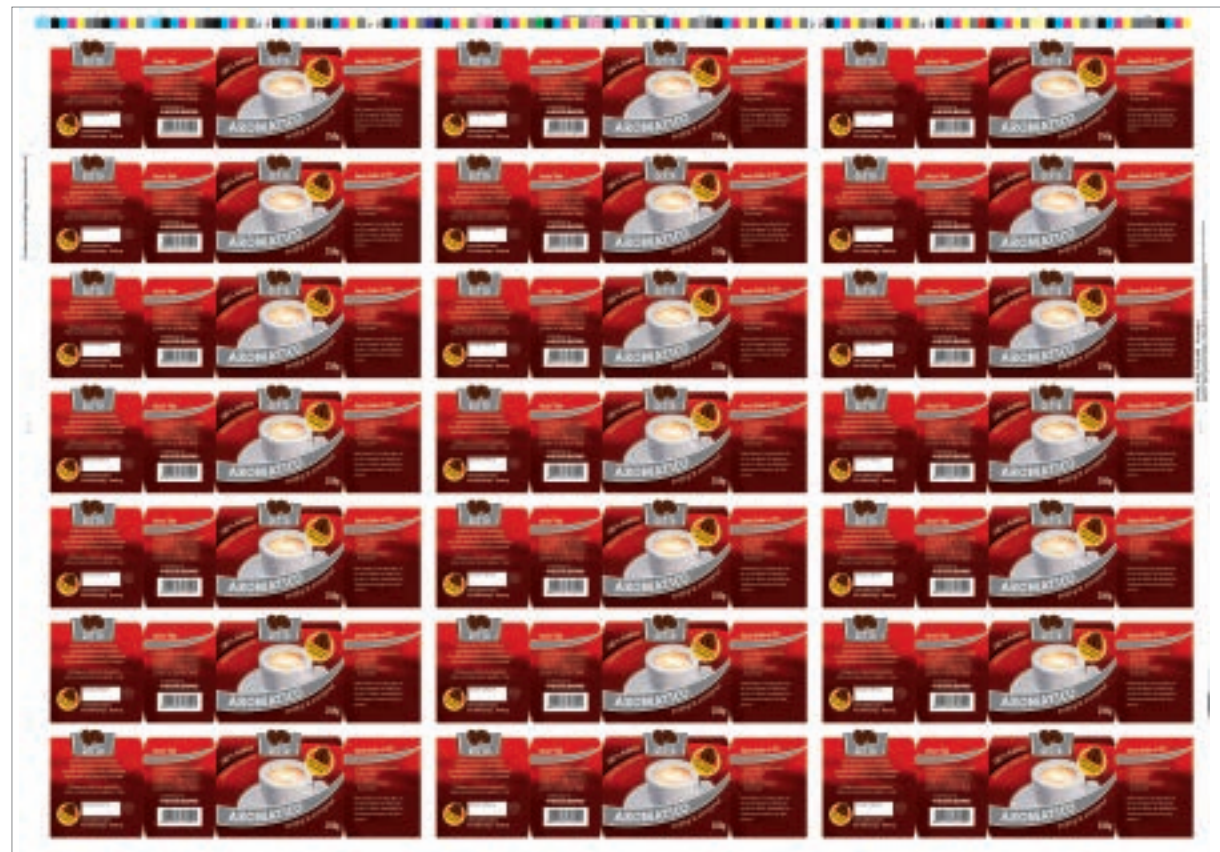
Ink: Saphira Anicolor

Coating: Gloss dispersion coating

Production: Conventional Anicolor process inks and silver are used, and a full-area protective label coating is applied inline via the coating unit.

Job benefits with Anicolor

Metallic/spot color inks and special coatings are being used increasingly in commercial, packaging, and label printing. The Anicolor short inking unit supports easy and cost-effective production of these special applications. This enables print shops to extend their portfolios and stand out on the market.



“Aromatico” labels

High-Quality Packaging Printing. The Smart Solution for Short Runs with a Spot Color Impresses with Top Quality.

Sample job 6:

“Clean Sounds” folding carton

Press: Speedmaster SX 52-5+L Anicolor

Substrate: 240 gsm Invercote G

Ink: Saphira Anicolor

Coating: Dispersion coating

Production: Printed with Anicolor inks, an additional silver spot color, and a dispersion coating applied via the coating unit.



“Clean Sounds” folding carton

Job benefits with Anicolor

Anicolor technology supports easy and uniform printing and reliable reproduction of customized spot colors – for small cut-outs and full-area printing alike.

Multicolor Workflow in Packaging Printing. The Smart and Cost-Effective Way to Produce Spot Colors.

Sample job 7:

“Ibuprofen” folding carton

Press: Speedmaster XL 75-7+L Anicolor

Substrate: 300 gsm Alaska GC 2

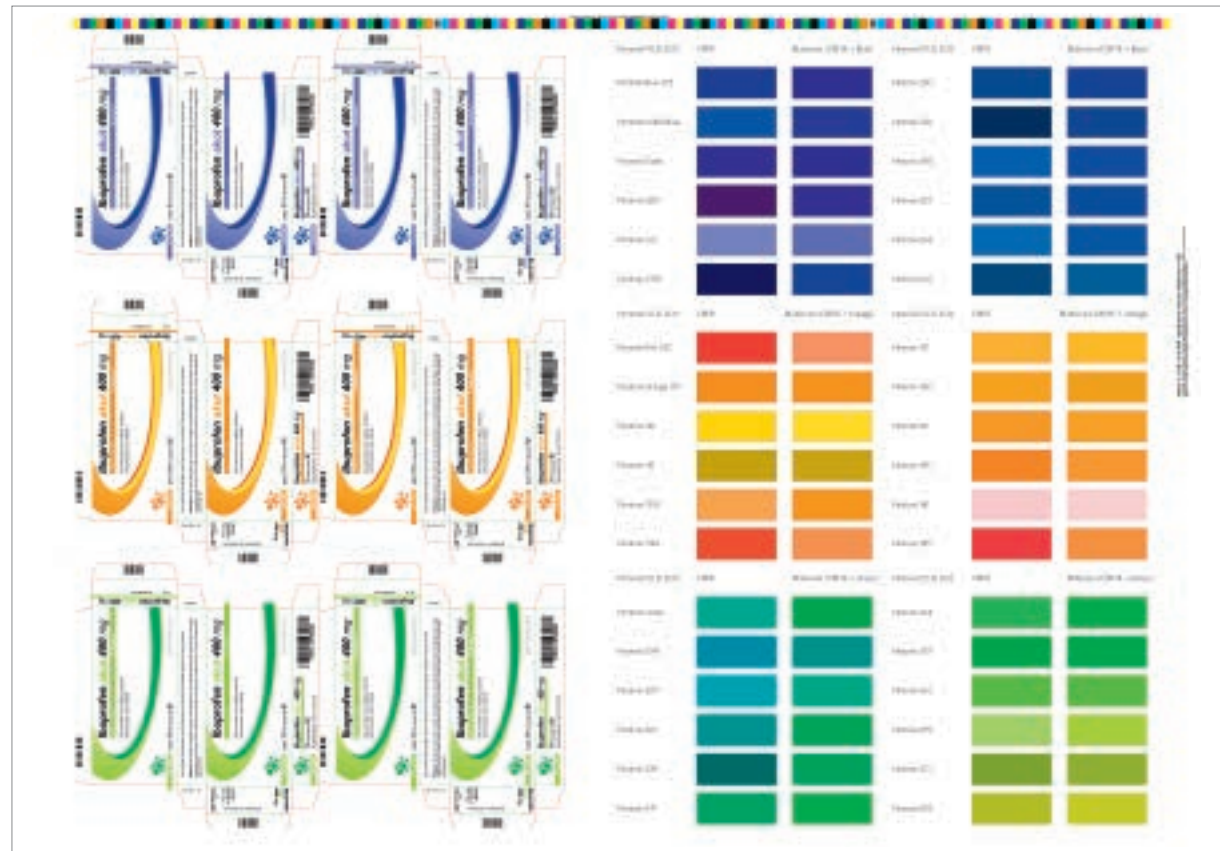
Ink: Saphira Anicolor

Coating: Gloss dispersion coating

Production: Conventional Anicolor inks are used for the process colors and spot colors are replaced by Multicolor. Sheets are coated inline.

Job benefits with Anicolor

The aim of a Multicolor workflow is to replace spot colors with CMYK plus green, orange, and purple. The Prinect® software helps prepare a Multicolor color separation. Anicolor precisely reproduces these color separations and exactly matches the hue. Regardless of whether high or low ink coverage is required, the spot color is printed uniformly throughout the run.



“Ibuprofen” folding carton

UV Application in Commercial and Packaging Printing. Cost-Effective Production of Short Runs – with Highly Flexible Applications.

Sample job 8:

“Surprise Wave” folding carton

Press: Speedmaster SX 52-4+L UV Anicolor

Substrate: Inaplast white matt 0.4 millimeters (0.016 inches)

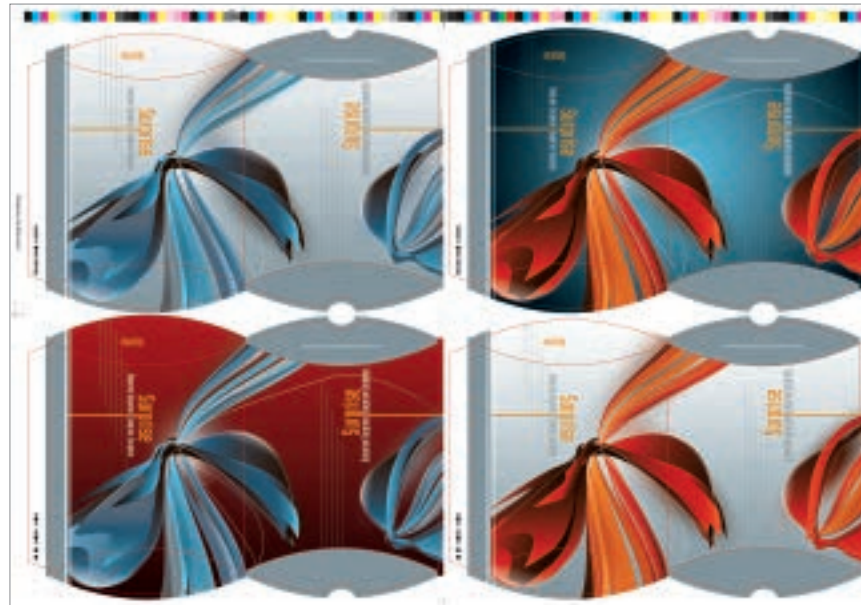
Ink: Saphira UV Anicolor

Coating: UV gloss dispersion coating

Production: The job is produced in four colors with Anicolor UV inks and a UV gloss dispersion coating.

Job benefits with Anicolor

Anicolor technology also offers great benefits with UV applications in packaging and commercial printing. For example, it enables special materials (plastic) to be printed, while products are also ready for postpress straight after printing. Minimizing paper waste also cuts costs – a particularly important factor when using expensive substrates.



“Surprise Wave” folding carton

Saphira Performance Kit Anicolor.

Consumables for Top Print Results with the Anicolor Inking Unit.

The Saphira® Performance Kit Anicolor was specifically designed for Speedmaster presses with an Anicolor inking unit to deliver optimum results and top productivity in standardized printing.

- **Saphira Anicolor process inks:** Unlike standard inks, these inks exhibit an optimum response to temperature changes and enable more precise color control.
- **Saphira Anicolor spot color inks:** Uniform ink film thickness ensures consistent and stable inking.
- **Saphira Anicolor inking blanket:** For more consistent and uniform ink transfer.
- **Saphira blanket for blanket cylinders:** Optimizes ink transfer from printing plate to substrate.
- **Saphira Anicolor fountain solution:** Dampening solution for a stable ink-water balance and maximum print output.



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