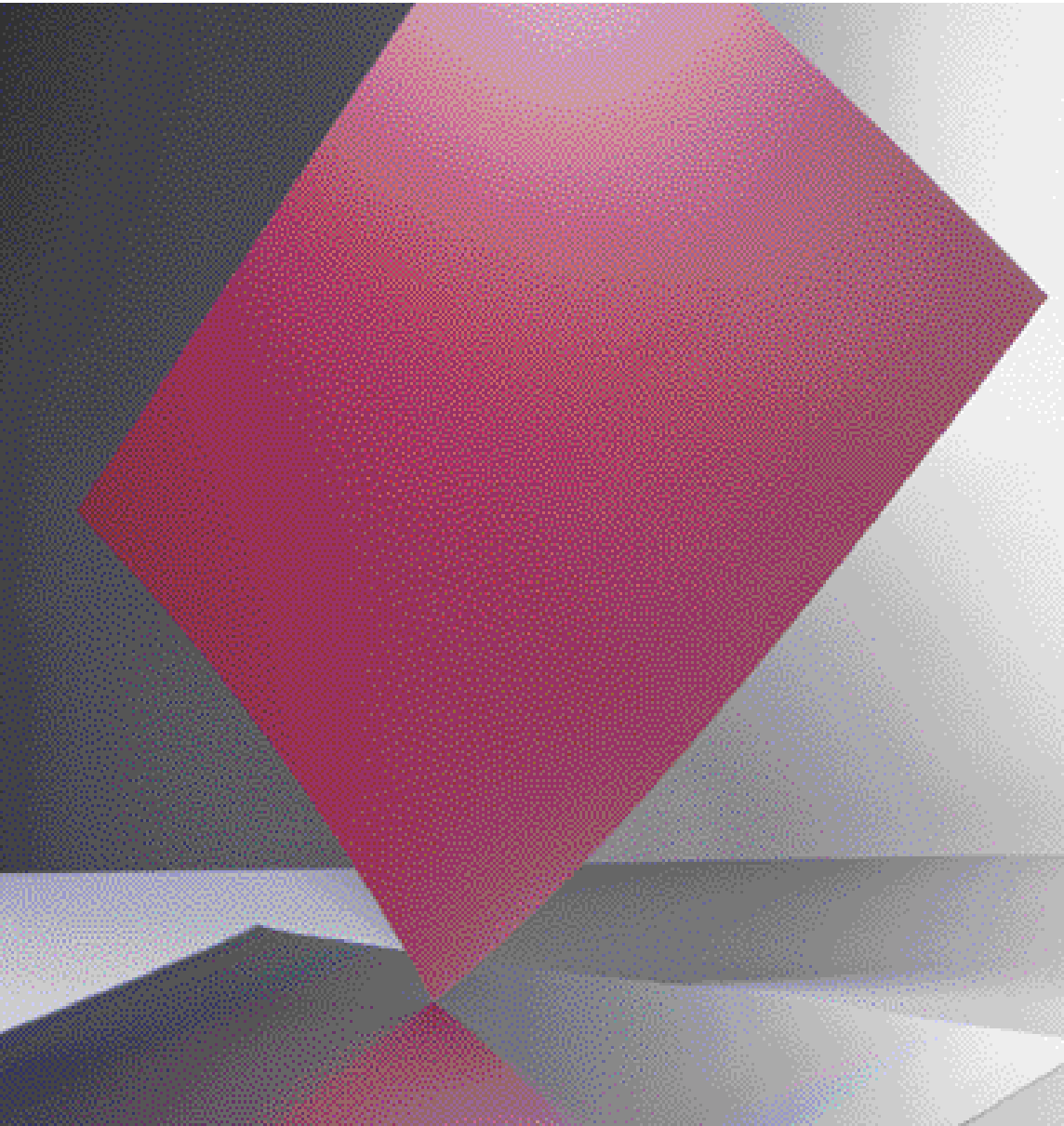


Lithostar Ultra

Lithostar Ultra-V
Lithostar Ultra-R
Lithostar Ultra-O

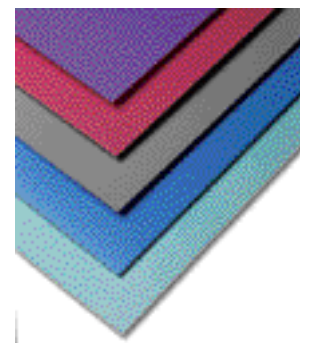


The highest quality solution for visible-light platesetting

The Agfa Lithostar Ultra family of plates takes silver-halide technology to new levels of quality, reliability, consistency, and ease of use. It builds on the technological heritage of Agfa's industry-leading Lithostar Plus and Silverlith SDB plates and adds new innovations and capabilities. With Lithostar Ultra, printers can create plates with resolutions of up to 250 lpi that perform exceptionally well on press.

Right for today's visible-light computer-to-plate solutions

Lithostar Ultra plates are positive-working aluminum plates engineered for compatibility with all major visible-light imaging technologies, including Lithostar Ultra-V (violet-sensitive/400–410 nm), Lithostar Ultra-O (orthochromatic/488 nm and 532 nm), and Lithostar Ultra-R (red-sensitive/650–670 nm). Lithostar Ultra is the right plate for a wide range of medium run length applications where you need high quality and remarkable ease of use.



AGFA 

AGFA. A SMARTER WAY.

Agfa Lithostar Ultra: The smart choice for high-quality visible-light plates

New silver-halide technology

Lithostar Ultra is a high-speed aluminum plate based on Agfa's proven silver-halide technology, which provides an ideal, robust solution for digital imaging. Agfa has more than a decade of experience developing and manufacturing silver-halide plates of the highest quality, and currently holds many patents in this area. Now technological enhancements and improved manufacturing take silver-halide plates even further. The result is Lithostar Ultra—the world's most advanced visible-light plate.

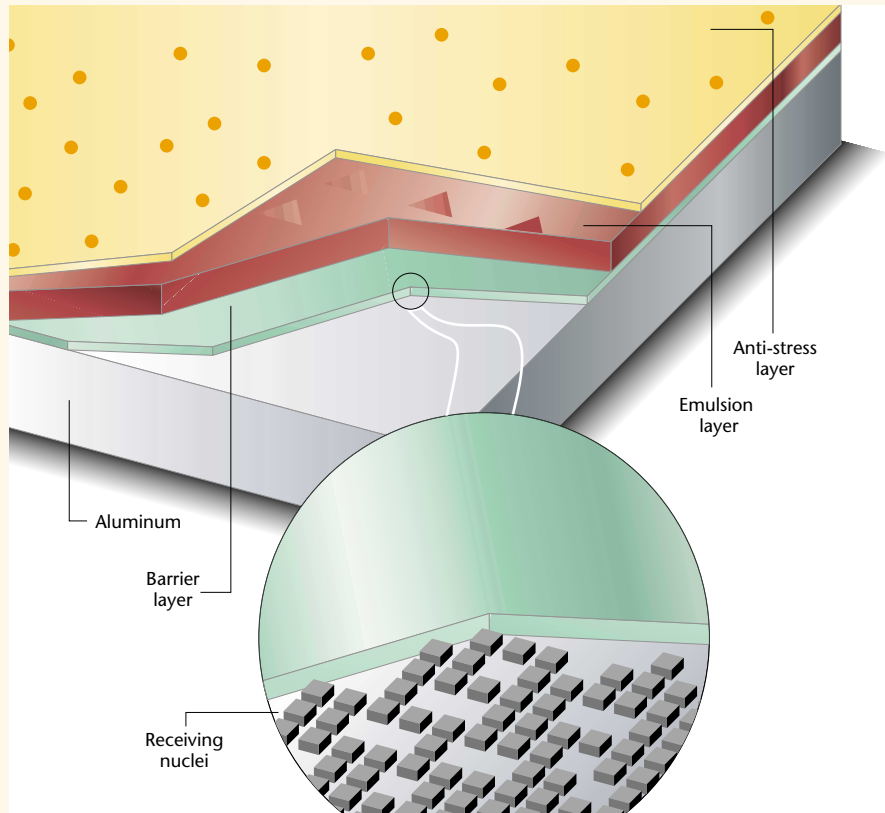
At every stage, Agfa Lithostar Ultra is smart-engineered to provide the exceptional resolution you need—as well as the reliability you've come to expect from Agfa, the leader in digital plate technology.

A stable, durable aluminum substrate

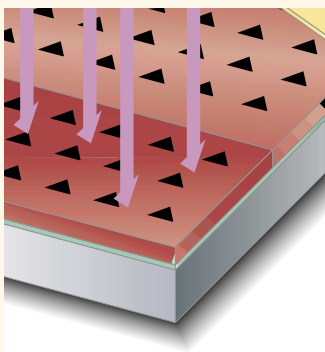
Agfa Lithostar Ultra features an HCl-grained and anodized aluminum substrate that provides the solid foundation for exceptional performance. Graining improves adhesion with the image layer, while anodizing improves durability and prevents scratching. Agfa Lithostar Ultra incorporates improved electrochemical graining and anodizing that enables Lithostar Ultra to deliver the hard dots and imaging sharpness necessary for high-resolution platesetting.

A sensitive silver-halide coating

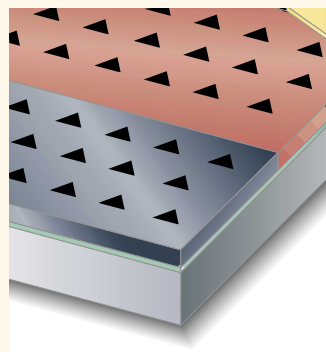
Agfa Lithostar Ultra's coating layer includes silver-halide particles evenly distributed and suspended in a gelatin layer. During exposure, the laser



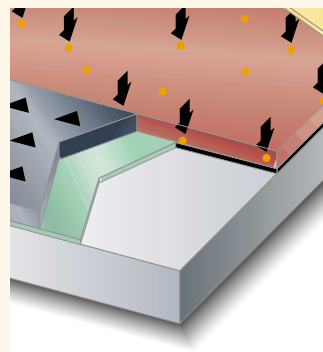
exposes and fogs the non-imaged areas, which are removed during development. In the image areas, the silver migrates downward through the emulsion and adheres to the aluminum substrate. In the final wash stage, any remaining traces of gelatin are washed away from the image area. Agfa Lithostar Ultra requires less washing. The non-imaged silver is safely washed away and recovered for reuse.



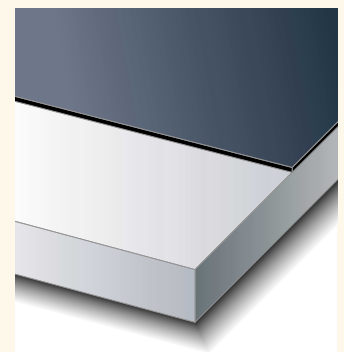
Step 1: Exposure
During exposure of a Lithostar Ultra plate, the laser activates the silver-halide particles in the exposed areas. The unexposed silver particles eventually form the image after chemical reaction with the developer.



Step 2: Development
During development, the exposed/activated silver-halide particles are developed and fixed securely inside the emulsion layer. Particles that were not exposed remain very mobile and capable of diffusion.



Step 3: Diffusion
In the diffusion stage, unexposed silver ions transfer from the emulsion layer, through the barrier layer, and to the aluminum base, forming the final printing image.



Step 4: Wash off
After image transfer/diffusion is complete, the emulsion and the water-soluble barrier layer are completely removed, leaving only the final printing image on the aluminum substrate.

Agfa Lithostar Ultra

When creating Lithostar Ultra, we asked our customers what they wanted in a next-generation silver-halide plate. They wanted a reliable plate that yielded consistent results every time. They wanted a plate that could be used with minimal attention. And they wanted high-quality results on press. The result is Lithostar Ultra, the silver halide plate solution that gives printers all of these qualities and more.

A plate that works the way you do

Agfa Lithostar Ultra combines the accuracy of digital imaging with the familiar performance characteristics of lithographic plates. In the pressroom, Lithostar Ultra performs exactly the same as a conventional plate, enabling you to incorporate it into your operation without changing how you work.

Right for a wide range of applications

Agfa's high-resolution silver-halide plates are a proven success with commercial printers who need a flexible plate right for almost any mid-length (350,000+) run — from business forms to high-resolution four-color work. In each case, Lithostar Ultra brings the unvarying consistency and unbeatable quality that ensure successful final results on press.

Able to provide the highest quality

Lithostar Ultra is capable of imaging up to 250 lpi, making it ideal of high-resolution applications where the highest quality is needed. For example, Lithostar Ultra is an ideal solution for applications using stochastic screening, such as Agfa CristalRaster. In these applications, Lithostar Ultra's capabilities truly shine, providing the highest quality results possible.

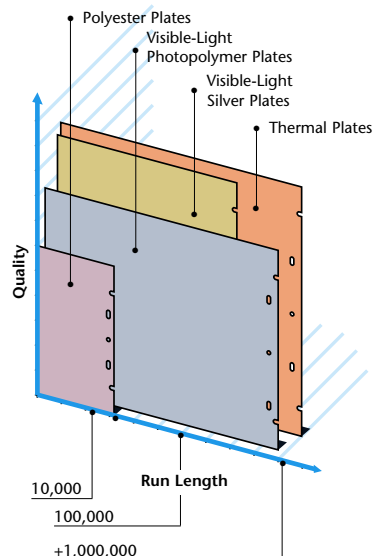
Reliable and predictable performance

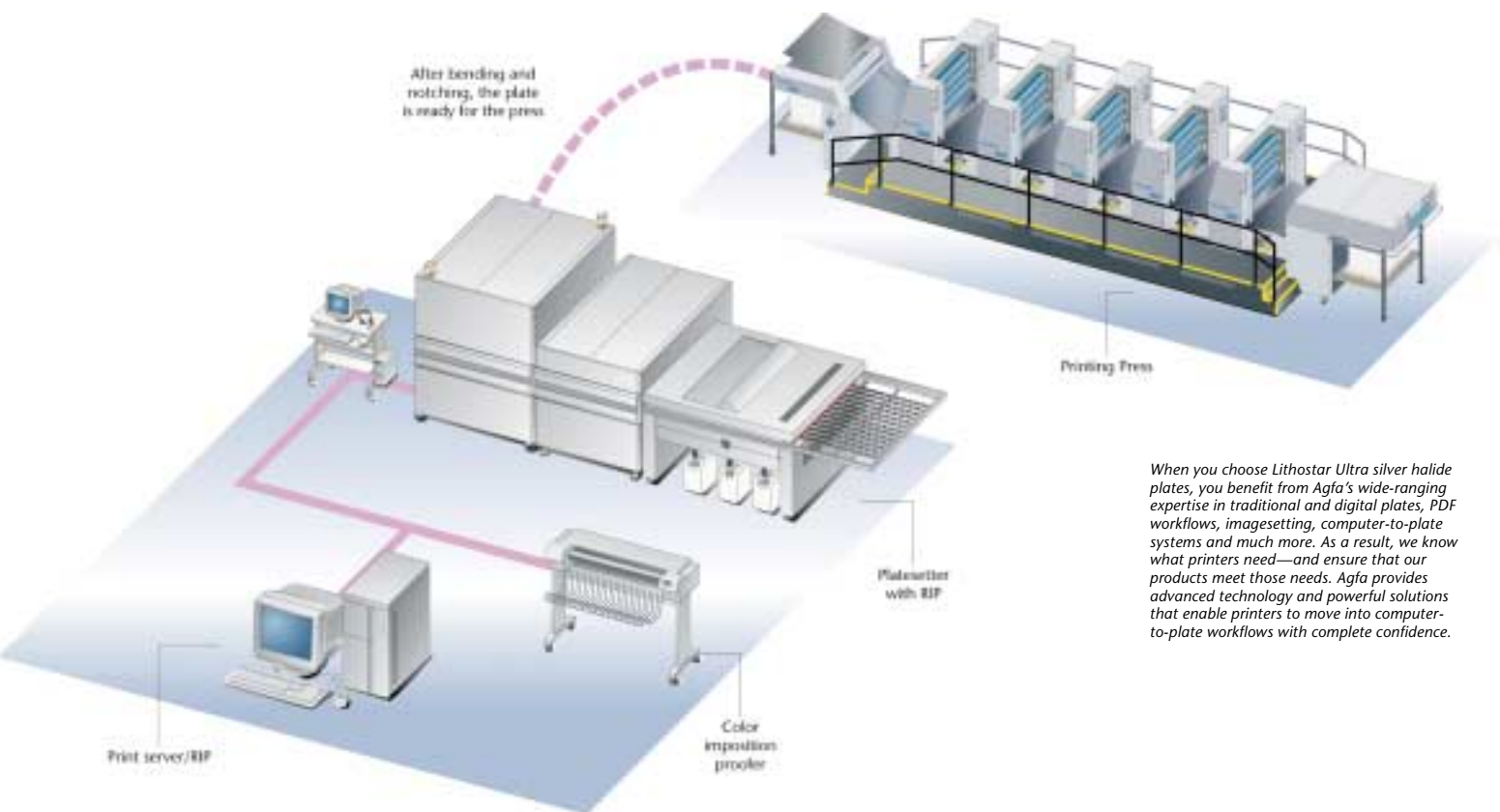
Printers hate surprises. They love consistency. The advanced manufacturing techniques used to create Lithostar Ultra ensure an extremely consistent digital plate — one that behaves the same during exposure, and every time it reaches the press. Agfa's unequalled experience with silver-halide technology enables us to reach levels of consistency and reliability that our competitors cannot. Agfa Lithostar Ultra is manufactured in Agfa's acclaimed Centers of Excellence, which are dedicated to achieving the highest quality via advanced manufacturing and quality control. The result? Plate to plate, batch to batch, job to job — Lithostar Ultra comes through with exceptional performance.



Lithostar Ultra-V is optimized for Galileo VS and VXT, Agfa's new, fast violet laser computer-to-plate solutions.

Agfa offers the broadest line of plates in the industry, including polyester, photopolymer, silver-halide, and thermal plates. So you can choose the Agfa plate that meets your quality and run length requirements. And to extend our leadership, we continually push the boundaries of consistency and quality with new plate technologies.





When you choose Lithostar Ultra silver halide plates, you benefit from Agfa's wide-ranging expertise in traditional and digital plates, PDF workflows, imagesetting, computer-to-plate systems and much more. As a result, we know what printers need—and ensure that our products meet those needs. Agfa provides advanced technology and powerful solutions that enable printers to move into computer-to-plate workflows with complete confidence.

A convenient, easy-to-use plate

Lithostar Ultra is designed for simple use throughout imaging, development, and processing. Lithostar Ultra-V plates can be handled in near-daylight conditions, raising convenience to new heights. No matter which Lithostar Ultra plate you choose, you'll find that it's an extremely forgiving plate in all conditions and comes through with exceptional results every time. Lithostar Ultra provides excellent durability and scratch resistance which means fewer redos and greater productivity.

Fast processing times

Today's high-productivity platesetters need a high-performing plate that's ready faster. When creating Lithostar Ultra, Agfa optimized the plate for the shortest possible development times. So with Lithostar Ultra, you can ensure a steady flow of plates to your presses.

Optimized for use with Agfa Galileo

At Agfa, we design and manufacture innovative digital plate manufacturing systems as well as the plates that they image. More than a thousand engineers and scientists around the world

collaborate on all aspects of our platesetters, plates, and processors, ensuring integrated computer-to-plate solutions. Our engineers fine-tuned Agfa Lithostar Ultra to be the ultimate plate for our industry-leading Agfa Galileo family of plate manufacturing solutions—which includes the new Galileo VS and VXT violet-laser systems. For example, Lithostar Ultra-V's plate contrast is ideally suited to the violet laser spot created by Galileo's violet-laser technology. The result is the hardest dot possible—and the best resolution and performance on press. In this area and others, Agfa has created a plate that is fine-tuned for optimal results with Galileo.

Integrated with leading platesetters

Agfa also works with the world's other plate-setter manufacturers to ensure that our plates are compatible with their platesetters. The broad range of imaging technologies covered by Agfa Lithostar Ultra ensures excellent use with any current or emerging visible-light system on the market. No matter what type of visible-light imaging your platesetter uses, Lithostar Ultra provides high-resolution results. Plus, its high-sensitivity coating enables Lithostar Ultra to



keep pace with the imaging speeds of today's high-productivity platesetters—ensuring maximum throughput.

An ecological approach to processing

Agfa Lithostar Ultra processors are highly stable, user-friendly, low-maintenance systems ideally suited for processing Lithostar Ultra plates. Now Agfa has created a waste reduction kit for its processors, resulting in less water usage. Our approach enables you to use the same liquid three times, reusing the gum, wash, and rinse water. Lithostar Ultra's thin coating requires less washing during processing, reducing water consumption and waste. Plus, all silver collected during processing can be quickly and conveniently recycled.

Great results on press

Agfa Lithostar Ultra is designed to perform well on press with minimal adjustment, lowering labor costs and simplifying operation. Lithostar Ultra offers improved ink-water balance throughout the press run, lower consumption of dampening solution, and reduced dot gain. Lithostar Ultra plates roll up quickly, minimizing make-ready times and reducing paper waste. Additions and deletions are easy to make and hold. With Agfa Lithostar Ultra, your press operators have a high-resolution silver-halide plate that makes it easy to achieve great results.

| | Lithostar Ultra-V | Lithostar Ultra-O | Lithostar Ultra-R |
|------------------------------|---------------------------------|--|------------------------------|
| <i>Laser sensitivity</i> | 400 – 410 nm | 532 nm | 650 – 670 nm |
| <i>Run length</i> | 350,000+ | 350,000+ | 350,000+ |
| <i>Digital applications</i> | Violet laser diode platesetters | Blue argon-ion and green FD:YAG platesetters | Red laser diode platesetters |
| <i>Darkroom illumination</i> | Bright yellow light | Red light | Cyan darkroom |

Lithostar Ultra product specifications

| Feature | Lithostar Ultra |
|------------------------|---|
| Plate type | Positive-working, high-speed, laser exposed |
| Coating | Silver-halide coating, high-speed, highly visible image |
| Gauges | 0.15 mm, 0.20 mm, 0.24 mm, 0.30 mm, 0.35 mm, 0.40 mm 0.006", 0.008", 0.010", 0.012", 0.014", 0.016" |
| Surface | Electronically grained and anodized |
| Sizes | Standard sheet-fed and web sizes |
| Spectral sensitivity | <ul style="list-style-type: none"> Lithostar Ultra-V — Violet laser diode (400 – 410 nm) Lithostar Ultra-O — Blue argon ion and green FD:YAG laser (488 – 532 nm) Lithostar Ultra-R — Red laser diode (650 – 670 nm) |
| Exposure energy | <ul style="list-style-type: none"> Lithostar Ultra-V — 26 mJ/m² at 400 – 410 nm Lithostar Ultra-O — 14 mJ/m² at 532 nm Lithostar Ultra-R — 25 mJ/m² at 670 nm |
| Resolution | 2 – 98 percent at 250 lpi |
| Image color | Black (silver) |
| Processor | LP82, LP150, SLT 70, 85, 105, 150 |
| Development, finishing | L5000 developer, L5300 finisher |
| Processor speed | 2.5 cm/second |
| Temperature | Developer 22°C, Wash 40°C, Rinse 48°C, Finisher 48°C |
| Replenishment rate | Developer 150 ml/m ² , Finisher 150 ml/m ² |
| Storage conditions | <ul style="list-style-type: none"> Unprocessed plates — temperature <32°C, relative humidity <70% Processed plates — temperature 18 – 24°C, relative humidity <70% |
| Run length* | 350,000+ |

* Depending on press conditions and image content

The smart choice for digital plates

Every day, more pages are imaged on Agfa plates than any other type of plate. Agfa offers the broadest line of digital plates in the industry, including thermal (Thermostar), thermal-ablative processless (Mistral), thermal non-ablative processless (Thermolite), silver halide (Lithostar Ultra), photopolymer (N91), and polyester (Setprint) plates. So you can choose the Agfa plate that meets your quality and run length requirements. To extend our plate leadership, we continually push the boundaries of consistency and quality with new plate technologies.

The world's choice for computer-to-plate solutions

Only Agfa offers the full range of platesetters, plates, processors, RIPs, screening technologies, digital proofing solutions, workflow expertise, and other prepress systems and consumables necessary for your success. For complete, high-quality platesetting solutions that give you a choice, look to Agfa — the world leader in computer-to-plate technology and expertise.

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Belgium, Agfa Belgium N.V. Tel.: 32-3-450-98-95, Fax: 32-3-450-98-88
Belgium, Agfa-Gevaert N.V., Direct Export Tel.: 32-3-444-7120, Fax: 32-3-444-7119
Brazil, Agfa-Gevaert do Brasil Ltda Tel.: 55-11-5188-6444, Fax: 55-11-5188-6419
Canada, Agfa Inc. Tel.: 416-241-1110 Ext: 4053, Fax: 416-241-5409 or 877-753-2432 toll free
Caribbean and Central America, Agfa Tel.: 305-592-6522, Fax: 305-593-8521
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Finland, Oy Agfa-Gevaert Ab Graafiset järjestelmät Tel.: 358-9-8878-378, Fax: 358-9-8878-278
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Japan, Agfa-Gevaert Japan, Ltd. Tel.: 81-3-5704-3140, Fax: 81-3-5704-3089
Korea, Agfa Korea Ltd. Tel.: 82-2-2262-4200, Fax: 82-2-2274-9764
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Malaysia, Agfa Malaysia Sdn. Bhd. Tel.: 60 3 7574200, Fax: 60 3 7574700
Mexico, Agfa de Mexico S.A. Tel.: 525-699-1400, Fax: 525-699-1402/1403
Netherlands, Agfa-Gevaert B.V. Tel.: 31-70-413-1211, Fax: 31-70-413-1585
New Zealand, Agfa-Gevaert New Zealand Ltd. Tel.: 64-9-443-5500, Fax: 64-9-443-8855
Norway, Agfa-Gevaert A.S. Tel.: 47-67 05 88 00, Fax: 47-67 05 89 65
Poland, Agfa Sp. Z.O.O. Tel.: 48-22-572-3940, Fax: 48-22-572-3969
Portugal, Agfa-Gevaert Lda Tel.: 351-21-414-6700 Fax: 351-21-414-6780
Singapore, Agfa Singapore Pte. Ltd. Tel.: 65-261-3389, Fax: 65-265-6559
South Africa, Agfa South Africa (Pty) Ltd. Tel.: 27-11-921-5911, Fax: 27-11-921-5548 or 5419
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