

Thermal platesetter

:Xcalibur 45™



Combining high quality with exceptional reliability

:Xcalibur 45 is a next-generation, high-speed thermal platesetter that brings today's commercial offset and packaging printers the reliable flow of high-quality digital plates they need to stay competitive.

With :Xcalibur 45, you get the power of HD-CTP™—High-Definition Computer-to-Plate—a breakthrough technology that provides ultra-high image quality and unbeatable printability.

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:Xcalibur 45

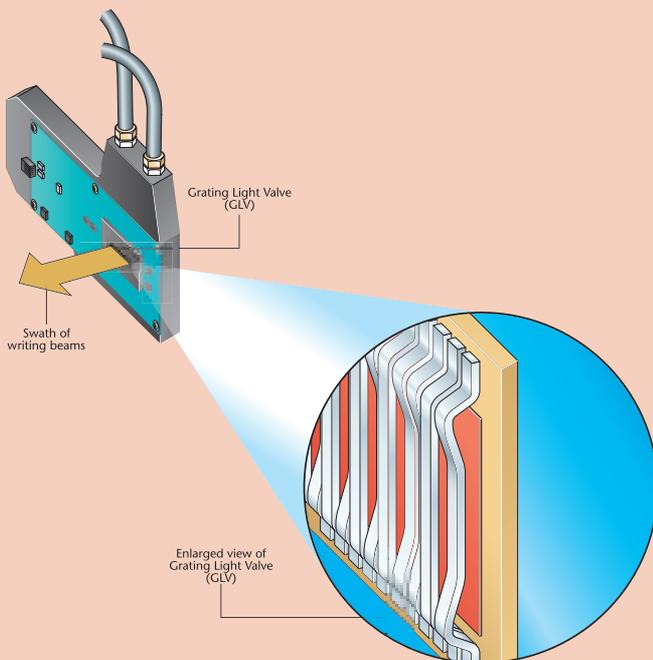
Meeting the needs of today's printers

Exceptional quality

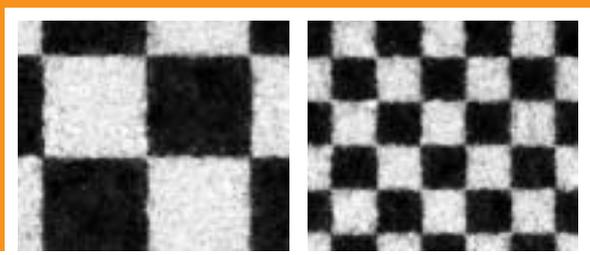
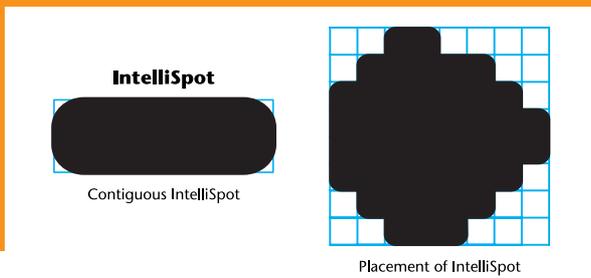
:Xcalibur 45's innovative components and state-of-the-art technologies combine to create a system of unequaled quality, reliability, and ease of use. The plates you image with :Xcalibur 45 perform great on press—with wide latitude, unequaled accuracy, and fewer remakes. So :Xcalibur 45 will get rave reviews from your toughest customers—your pressroom staff. And if you need the highest possible quality, Agfa offers the :Xcalibur 45 Elite – which employs highly tuned optics designed for stochastic screening and other high-end applications.

GLV: unique, patented laser and optics

To achieve HD-CTP, :Xcalibur 45 images plates in a new way that enables remarkable levels of accuracy. The key component of the optical system is the Grating Light Valve (GLV™), a patented component that enables precision control of laser energy. During imaging, the laser illuminates the GLV's ribbons, which modulate the solid-state laser diode bar to produce individually addressable writing beams. The beams are automatically calibrated via on-board sensors to ensure optimal and uniform exposure. Plus, the imager includes automatic controls that magnify and focus the imaged spots.



Grating Light Valve (GLV™), a patented component that enables precision control of laser energy.



The innovative spot shape of IntelliSpot allows the system to achieve accurate imaging of contiguous shapes, without artificial adjustment to bring imaging areas together. :Xcalibur 45 provides a single, continuous line of carefully controlled IntelliSpots.

The quality of :Xcalibur 45 is even more apparent under the microscope, where you can see the accurate, sharp imaging provided by our patented imaging system and :IntelliSpot™ technology.

HD-CTP : a smarter way to image

:Xcalibur 45 produces a multi-beam writing “swath”—or line—of carefully controlled, exceptionally consistent thermal energy on the imaging plane. :Xcalibur 45 can image contiguous, flawless shapes where single-spot engines can only create dots. Adjacent spots are never overlapped, nor are there any voids in the images that require overexposure to hide, as required by some systems. Instead, :Xcalibur 45 creates extremely accurate, uniform images. You can see this accuracy at the microscopic level—and on press, with exceptional printability and greater process latitude.

images a single, continuous swath of carefully controlled IntelliSpots, creating a writing swath consisting of a variable width line that is 10 microns high. The result? Improved printability and greater process latitude on press.

IntelliSpot: Better results on press

Agfa’s IntelliSpot™ technology combines the best elements of Gaussian and traditional spots, creating a new hybrid spot designed for accuracy. :Xcalibur 45

Helical imaging enables seamless, controlled imaging.

:Xcalibur 45’s swath of beams moves around the drum and across the plate in a patented helical writing pattern for accurate, continuous imaging that eliminates gaps or overlaps of the writing beams. By writing to the plate with a multi-beam swath, :Xcalibur 45 can provide exceptionally fast writing speeds at a relatively low drum rotational speed—simplifying operation and ensuring long-term reliability.

:Xcalibur 45 Elite: The right choice for the most demanding applications

The precision-engineered, finely tuned imaging system of :Xcalibur 45 Elite provides the high level of accuracy necessary for advanced screening and the most demanding applications. You can choose Agfa’s new :Sublima™ hybrid screening technology – which combines traditional amplitude-modulation (AM) screening and frequency-modulation (FM) screening to achieve exceptional photographic quality. :Sublima is a simple, reliable, and cost-effective screening solution that enables you to meet the growing demand for higher quality – all without changing the way you work. And if your operation needs the highest possible quality, :Xcalibur 45 Elite also lets you use :CristalRaster™ stochastic screening for other high-end applications, such as HiFi and HexaChrome.





:Xcalibur 45

Simplifying computer-to-plate imaging

Higher productivity

With :Xcalibur 45, you get more than great results every plate. You get a computer-to-plate solution that makes it easier and faster to create high-quality plates – increasing the productivity of your operation, and the profitability of your business. Its streamlined, small-footprint design is built for fast, easy, and reliable imaging. In an era when you need to achieve maximum productivity to stay profitable, :Xcalibur 45 comes through with a wide range of productivity-enhancing features that speed your entire workflow.

Easy loading and unloading

:Xcalibur 45's unique external drum design enables you to easily load and unload the system. The input transport mechanism includes a patented de-skewing feature that automatically pre-aligns the plate as it feeds into the drum—ensuring accurate loading and registration of every plate. And the output area features an optional exit conveyor that leads directly to an on-line processor.

Efficient plate pre-staging

For maximum throughput, :Xcalibur 45 allows users to pre-stage a second plate in the input tray so that it will be automatically loaded when the first plate is imaged and ejected. With :Xcalibur 45, operators will never have to wait for the first plate to exit the drum before loading another plate. This approach reduces plate handling overhead and makes the overall system more efficient—so you can make more plates with less operator effort. In short, :Xcalibur 45 keeps throughput high and raises your overall productivity.

Easy, safe operation—every job

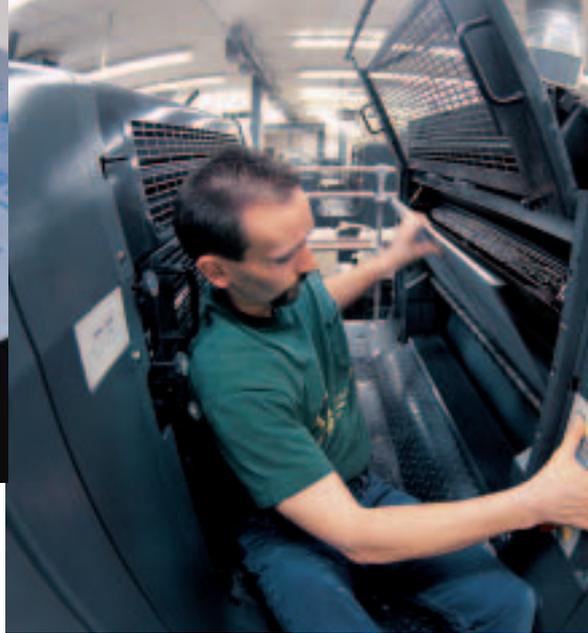
Thanks to its innovative technology, :Xcalibur 45 is extremely easy to use. The operator control console provides an intuitive interface with the system, enabling operators of all levels to perform key operations. User-friendly icons lead operators through the platemaking process. And every element of :Xcalibur 45 is designed for maximum safety and ease of use for all operators.

Integrated processing

:Xcalibur 45 can be configured with efficient, high-quality thermal processors—including the :Autolith-TP85 and TP105. These processors can be configured off-line, or in two different on-line placements—directly in-line or through an L-bridge. This flexibility helps you use your existing space to its fullest advantage by establishing a space-efficient, convenient platesetting operation.

During manual operation, :Xcalibur 45's design lets you pre-stage a second plate in the input tray. Once the first plate is imaged and ejected, the system automatically loads and aligns the next plate.





The end result of HD-CTP is excellent performance on press—enabling your printing operation to get exceptional results, and to get more jobs done every shift.

Getting the best results on press

Press performance

The results you get on press are the true measure of your platesetter. Agfa complements the :Xcalibur 45 with high-quality thermal plates, efficient processors, and the other technologies and components necessary for a complete, automated prepress process.

Integrating the plate with the platesetter

Agfa is the world's leading manufacturer of digital plates, offering the widest range of plate types and technologies in the world. For maximum integration, our engineering team collaborates on all aspects of our platesetters and plates. When you choose :Xcalibur 45, you benefit from this synergy, which results in higher quality, greater reliability, and the best possible performance on press.

High-quality :Thermostar plates

:Thermostar-P970 is a positive-acting plate based on an innovative thermal technology developed and patented by Agfa. :Thermostar-P970 provides the long runs (more than 1 million impressions when baked) and extreme accuracy that you need. With :Thermostar, every job you image benefits from a high-resolution thermal plate that makes it easy to achieve great results.

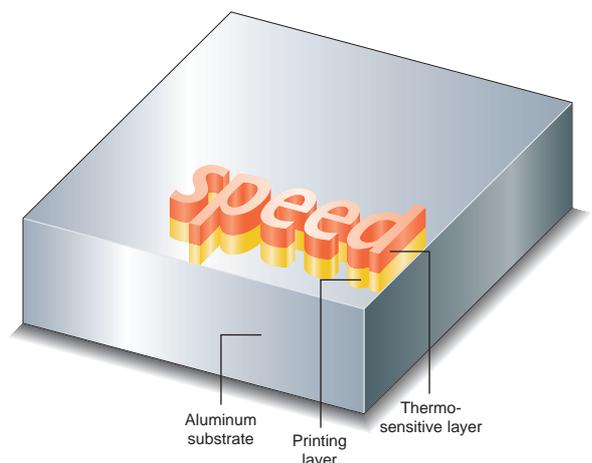
Wider process latitude

The end result of :Xcalibur 45's innovative features and patented technology becomes clear on press. With :Xcalibur 45, you have more process latitude, enabling you to create exceptional plates under a wider range of conditions. Think of HD-CTP as advanced computer-to-plate technology for the real world—where a certain amount of process variance is inevitable.

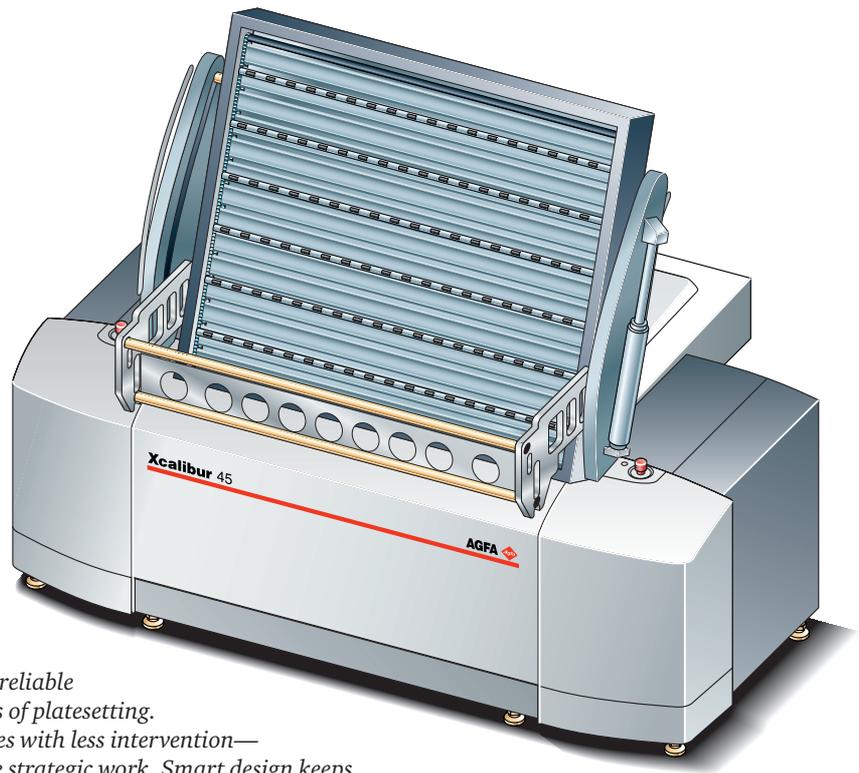
Better printability

Your press operators will find that :Thermostar plates created with :Xcalibur 45 show remarkable printability—making it easier to achieve great results on press. Take a closer look at Thermostar plates created with :Xcalibur 45 and you'll like what you see. Accurate imaging. Correct registration. And exceptional quality across the entire plate.

:Thermostar-P970 consists of an aluminum substrate for rigidity and excellent lithographic behavior, and a unique coating that includes a thin thermosensitive layer and a printing layer.



:Xcalibur 45



:Xcalibur 45 job-level automation brings you a simple, reliable design approach to the challenges of platesetting. With it, you can create more plates with less intervention—freeing your operators to do more strategic work. Smart design keeps operation simple and easy. And should you need a quick remake, it's easy to manually feed a new plate through the system—giving you the flexibility to respond to every situation.

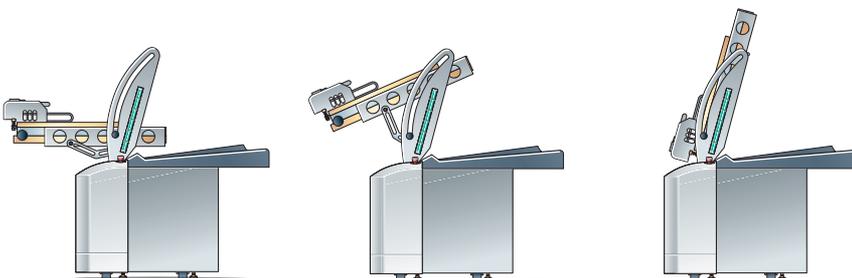
Choosing the level of automation you need

Innovative job-level automation

Agfa is a pioneer and leader in computer-to-plate automation. Our advanced automation solutions help commercial, packaging, and newspaper printers around the world create plates with less operator involvement, and enable unattended operation. With :Xcalibur 45, you can choose the level of automation that best matches your operation's throughput requirements today, and upgrade easily in the future.

A choice of automation levels

:Xcalibur 45 enables you to choose manual, semi-automatic, or two fully automatic configurations. Manual loading taps the system's ability to pre-stage plates. The semiautomatic approach configures manual input with an on-line :Autolith-TP processor, reducing plate handling. Job-level automation offers an extended period of unattended operation. Or a fully-automated system with a :PlateManager includes a choice of automation levels that let you keep 500 plates online.



:Xcalibur 45's easy-to-use cassette takes the work out of loading the cassette and getting the system ready for operation. An optional trolley makes it even easier to transport cassettes and load them into your :Xcalibur 45—without heavy lifting.

"You can manually insert a plate of any size for a fast remake or a rush job."



An elegant solution for automation

Job-level automation is a popular option for :Xcalibur 45, providing new levels of convenience in a simple, cost-effective, small-footprint solution. A removable cassette lets you keep up to 50 plates (or 25 0.3mm/12 mil plates) online and ready to image. The cassette is easy to load and carefully integrated into the system, ensuring a steady flow of plates to the engine. Since the cassette is removable, you can keep multiple cassettes loaded with the different plate types and formats you need.

Removable cassettes

:Xcalibur 45's job-level automation solution lets you remove the cassette for easy handling when you have multiple plate sizes. This approach makes plate

loading easier, and lets you keep a second cassette (or more) pre-loaded and ready to use. Because :Xcalibur 45 is a thermal computer-to-plate solution, high-quality thermal plates can be handled and loaded in convenient daylight conditions. And since the automation is designed into the top of the engine, no additional floorspace is required.

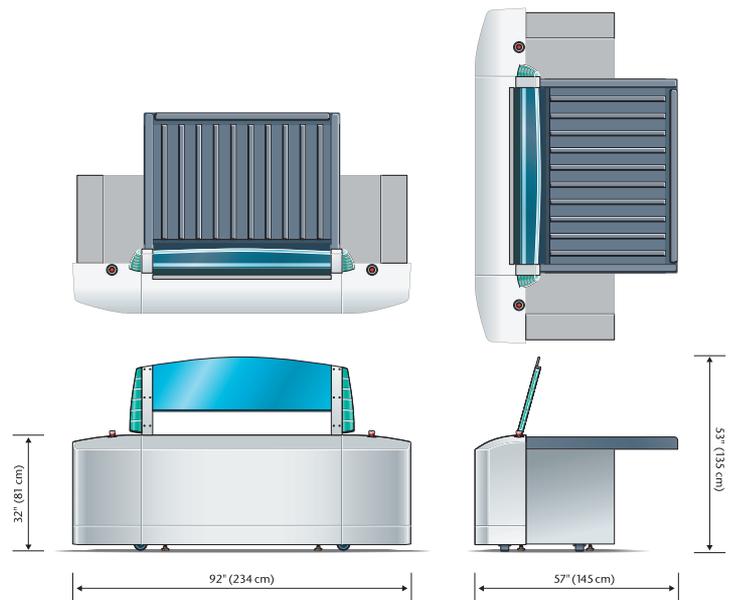
Quick remakes

:Xcalibur 45 job-level automation does not preclude manual plate loading. If necessary, you can manually insert a plate of any size for a fast remake or a rush job. With :Xcalibur 45 job-level automation, you can respond quickly to changing conditions and priorities—ensuring that your presses will operate at maximum efficiency.

:Xcalibur 45

Complete computer-to-plate solutions

:Xcalibur 45 is the latest proof of Agfa's leadership in computer-to-plate systems and plates. Our platesetter portfolio includes our industry-leading :Galileo family of violet-laser solutions, the :Xcalibur VLF very large format platesetter, the :Palladio 4-up violet-laser platesetter, and our :Polaris family of platesetters for newspaper production. Agfa's range of computer-to-plate solutions is unequaled—including internal and external drum systems, high-speed flatbed systems, visible-light and thermal imaging technologies, and more. This wide range enables you to match your throughput demands with the right platesetter, format, imaging technology, and level of automation.



	:Xcalibur 45LE	:Xcalibur 45E :Xcalibur 45E Elite	:Xcalibur 45S :Xcalibur 45S Elite	:Xcalibur 45XT :Xcalibur 45XT Elite
Imaging system	830nm infrared thermal with Grating Light Valve (GLV)	830nm infrared thermal with Grating Light Valve (GLV)	830nm infrared thermal with Grating Light Valve (GLV)	830nm infrared thermal with Grating Light Valve (GLV)
Minimum plate size	450 x 250 mm (17.72 x 9.84") processor dependent	450 x 250 mm (17.72 x 9.84") processor dependent	450 x 250 mm (17.72 x 9.84") processor dependent	450 x 250 mm (17.72 x 9.84") processor dependent
Maximum plate size	1160 x 820 mm (45.66 x 32.29") processor dependent	1160 x 820 mm (45.66 x 32.29") processor dependent	1160 x 820 mm (45.66 x 32.29") processor dependent	1160 x 820 mm (45.66 x 32.29") processor dependent
Plate thickness	0.15 – 0.40 mm (0.006 – 0.016")	0.15 – 0.40 mm (0.006 – 0.016")	0.15 – 0.40 mm (0.006 – 0.016")	0.15 – 0.40 mm (0.006 – 0.016")
Plate Loading	Manual Job Level	Manual Job Level :PlateManager	Manual Job Level :PlateManager	Manual Job Level :PlateManager
Processor	:Autolith-TP85 off-line or on-line with :Universal Plate Conveyor (UPC) :Autolith-TP105 on-line	:Autolith-TP85 off-line or on-line with :Universal Plate Conveyor (UPC) :Autolith-TP105 on-line	:Autolith-TP85 off-line or on-line with :Universal Plate Conveyor (UPC) :Autolith-TP105 on-line	:Autolith-TP85 off-line or on-line with :Universal Plate Conveyor (UPC) :Autolith-TP105 on-line
Resolutions	1200 and 2400 dpi	1200 and 2400 dpi	1200 and 2400 dpi	1200 and 2400 dpi
Screening Technology	:Xcalibur 45LE :Agfa Balanced Screening 200 lpi :Sublima 240 lpi*	:Xcalibur 45E :Agfa Balanced Screening 200 lpi :Sublima 240 lpi* :Xcalibur 45E Elite All above screens :Sublima 340 lpi* :CristalRaster* 21 micron	:Xcalibur 45S :Agfa Balanced Screening 200 lpi :Sublima 240 lpi* :Xcalibur 45E Elite All above screens :Sublima 340 lpi* :CristalRaster* 21 micron	:Xcalibur 45XT :Agfa Balanced Screening 200 lpi :Sublima 240 lpi* :Xcalibur 45E Elite All above screens :Sublima 340 lpi* :CristalRaster* 21 micron
*optional screening				
Plates per hour at 2400 dpi (1030 x 800 mm plate / 40.5 x 31.5")	10 plates/hour	15 plates/hour	20 plates/hour	25 plates/hour (may vary by screen type)
← (*) With Thermostar plates. Throughput may vary based on plate type. →				

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