JOHN CLIFFORD

Principal, John Clifford Graphics Consulting

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> "John was a resource for me, for our clients, and for many industry organizations. Not to be minimized is his keen awareness of costs and his ability to positively affect them.
>
> John has excellent communication skills. His professional demeanor translates to exceptional interpersonal skills with co-workers, clients, and management.
>
> If my words above don't adequately convey my thoughts, in three words, *John is special.*"
>
> Bennett Derman
> Owner, CEO The GTS Companies, retired

John Clifford Profile

John's background includes stints as the owner of his own typesetting company, which serviced the Hollywood entertainment community. Moving from traditional typesetting to desktop publishing, John has been an acknowledged leader in electronic prepress.

John served in the technology department of the GTS Companies, the educational publishing division of TechBooks, Inc., for over 10 years. He played a key role in creating PDF based CD-ROMs for the Academy of Motion Picture Arts and Sciences, Mosby, and McGraw-Hill, among others.

As PDF became a format for Computer-to-Plate, John headed GTS's team that developed PDF-based workflows, and continued to update and improve those systems, now aligned with the company's campuses in York, PA; Boston, MA; Fairfax, VA; and New Delhi, India. He has worked with publishers such as McGraw-Hill, Harcourt, Pearson, Thomson, and printers such as R.R. Donnelley and Quebecor on standards for 4-color print production. He has served on technical committees for several educational publishers on issues such as PDF and XML. John is the author of several articles, and a regular speaker on PDF issue in the publishing/printing industries at PDF Conference and Seybold Seminars.

In addition, John has served on the Electronic Prepress Users Group (EPUG) steering committee of PIA/SC, and currently serves as a director of both Hollywood Heritage and Pomona Heritage as well as a trustee of the Pomona Fox Corporation.

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What We'll Cover Today:

- CTP, Why Is It Important?
- The Current State of Computer to Plate
  - The Platesetters
  - The Plates
    - Chemistry-Free
    - Processorless
  - The Players
    - Platesetters
    - Plates
    - Workflows
- Evaluating ROI
  - All The Parts—It's Not Just a Platesetter
- 12 Steps to Implementing CTP

CTP, Why Is It Important?

Film is Dead: While there is a large installed base of imagesetters, they are not being supported by the manufacturers (no new R&D, less emphasis on supplies, etc.)

Metal Plates Don't Shrink / Stretch and Direct Imaging of Plates Ensures Repeatability

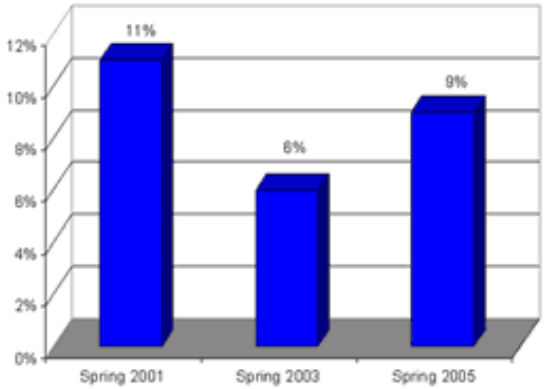
Enhanced Workflow Capabilities: PDF-based workflows abound and allow for the automation of a lot of tasks such as preflight, imposition, proofing, etc.

CTP Transition Challenge Continues to Rise Among Smaller Commercial Printers

October 18th, 2005

THE FACTS

In Spring 2005, "making the Transition to/Investment in Computer-to-Plate" was a business challenge for 9% of all print and prepress firms. TWGA forecasts that commercial printers in general owning CTP systems will increase 85.7% by 2010.



WHY SHOULD YOU CARE?

Looking at the full gamut of data, the average value for this challenge in the 2000-2001 range was 10.5%. In 2002-2003, the average dropped to 7.25%. In 2004-2005, the average climbed a scosh to 8%. Small and mid-size shops are increasingly challenged by making this transition, while larger shops are seldom-if at all-challenged by it any longer. **Of course, not everyone at the lower end of the market will ultimately need to respond to this challenge, especially as digital printing steals some of the thunder from CTP.** But for now, CTP is increasingly appearing on smaller firms' radars.

The Current State of CTP:

Prices Have Come Down

- Increased Affordability of CTP For Small to Medium Size Printer
- There are now CTP Solutions For All Budgets
- Prices are as low as $30- $60,000

Size Has Become Smaller

- Platesetters Smaller
- Elimination of Ovens and Processors
- Manufacturers Have Come Out With 2- 4-Up

Plate Technology Has Improved

- Processorless
- Chemistry-Free

Chemistry free plates coming

updated

Used to be processor less but most require water rinse, wiping, gumming

Eliminating processor reduces costs, maintenance and process variables

Study that chemistry costs are underestimated for metal devices *

- Chemistry can account for 30% of the price of plates.
- Typical printer spends $40 - $100K/yr. on chemistry

First available Presstek Applause and Anthem (added Aurora)

Today

- Agfa Azura a non-ablative, digital aluminum plate that uses a physical process, as opposed to chemical requires a "clean out" or gumming step
- Kodak Polychrome Graphics - Thermal Direct no-process plate
- Xanté Aspen metal plates - 6-mil aluminum, not -photosensitive—no processing
- Creo's Clarus PL require no gumming, processing or post-imaging treatment
- Hurst Chemical SmartPlate - processless, polyester plate
- Konica Minolta thermal, non-ablative process, with unexposed areas then removed on-press by fountain solution and ink.
- Glunz & Jensen - ink-jet computer-to-plate (iCTP) technology
- Citiplate's photopolymer - for conventional imaging technologies and thermal or violet CTP platesetters
- Fuji intelligent polymer plate "under development"

* John Zarwin CTP Plate Making: Understanding the Real Costs"

Source: Howie Fenton, NAPL

Platesetters:

Three Technologies For Metal Plates

Thermal: Eblates Plates, requires chemical processing

Violet Laser: Requires yellow-light conditions for handling

Inkjet: Standard Injet Engine with special solution that etches standard metal plates

Plates:

New Technologies

Chemistry-Free: No Chemistry, May require a processor which washes and gums plates

Processorless: No Processor per se, but usually requires a gumming station

Inkjet: Standard metal plates

The Players

Note that the information given is from manufacturers' brochures. Some of it is sales hype. No warranty of accuracy is to be made. There are probably others not included here. This in no way endorses these systems or products.

Platesetters

Making CtP work for you

The wait for plates is over...

HIGH WATER

Key Benefits

- **Quality**
  Cobra's imaging quality is superb with its powerful 60mW violet laser. Its precise optical system is capable of imaging with screening resolutions of over 200 lpi, giving excellent results on plate.

- **Speed**
  The wait for plates is over with Cobra's high speed spinner, designed for fast imaging. Combined with easy plate handling, this enables Cobra to output up to 30 plates per hour, including plate load/unload time.

- **Reliability and Accuracy**
  Cobra uses a high precision internal drum and violet laser technology – a combination proven to give the most reliable and consistently accurate imaging on metal plate.

- **Affordable Performance**
  Cobra's low cost of ownership and competitive return on investment results in one of the most affordable CtP systems on the market.

- **Ease of Use**
  Cobra's plate management console software has been written specifically to make platemaking easy – it is so simple that anyone can use the system to produce plates quickly and reliably.

- **Versatility**
  With its standard USB 2.0 interface, Cobra can be connected to any suitable Windows PC RIP that outputs 1-bit TIFF bitmaps. This fast industry standard connection ensures that Cobra is a truly "open" system.

- **Future Proof**
  Cobra is capable of imaging all silver and photopolymer violet plates currently on the market, to give a wide range of plate options both now and into the future.

Cobra is a manual load-unload CtP engine designed specifically for the B3/2-up commercial print market. It exposes violet metal plates at high resolution, using high precision internal drum imaging optics and a 60mW laser.

The plate is placed directly into the drum by the operator, and located in the registration system. Vacuum is then applied to hold the plate in perfect register while it is imaged at a resolution of 2540 dpi (100 dpmm) at a speed of 6mm per second. A 2-up GTO plate takes only one and a half minutes to image, regardless of content.

The Cobra system includes a high-spec workstation running a Torrent PS RIP, with a full complement of software applications that enables rapid processing and output of jobs to the Cobra. A software option for Simple Imposition is available. It provides an easy-to-use, automatic 2-up imposition facility, which is targeted at 2-up conventional printing that does not require complex imposition.

2-up Metal CtP

Computer to Plate

Registration Configurations:
Cobra has a double-sided registration bar, with 2 factory-configurable systems available per machine. This makes it ideal for printers who, for example, use both 220 mm and 425 mm register pins in their presses. Other systems can be configured on request.

System 1: 220mm 'Bacher' press notch registration

System 2: 425mm 'Bacher' press notch registration

System 3: Corner registration

System 4: Customer specific configuration

User Interface
A new simple Java-based user interface for 'point and click' plate production has been specifically designed for Cobra. With 'at a glance' multiple views, a home view showing previews and status of current jobs, overviews of all queues and completed plates, it is a powerful and highly effective tool in the plate production process. (See screen shot, bottom right.)

Internal drum imaging

Registration system

COBRA

Making CtP work for you

The benefits of using Cobra in your workflow are compelling. Its quality and speed of output let you produce plates to meet the ever increasing demands of today's print shop. Cobra's simple and clever design, with remote diagnostics, ensures an extremely high level of reliability with minimum downtime. This will put you ahead of your competition in the quest to satisfy your customers' high expectations.

Combining all these benefits with low cost of ownership, Cobra provides affordable metal plate production with an excellent price/performance figure. Additional features such as CIP3/4 ink-key setting and ROOM proofing help to ensure an investment geared for long-term success.

Using HighWater's Barcode ID software, which generates a unique identification mark on the plate, users can easily retrieve jobs for re-making plates.

Cobra System Options

RIP	Simple 2-up Imposition
	HWRoam
	TrapPro
Proofing	PixelProof ROOM solution
	Torrent ProofReady
Press Data	InkMonitor Light
	InkMonitor Pro
Tools	Barcode ID Plate Identification Mark

COBRA
Computer to Plate

Specification:

Laser type	Violet laser diode, 405nm, 60mW
Drum	270 mm radius, 130º aluminium alloy with hard anodised finish
Max plate	B3/2 up – 550 x 627 mm, 0.3 mm thick (21.6" x 24.6" x 0.012")
Min plate	B3/2 up – 300 x 380 mm, 0.15 mm thick (11.8" x 14.9" x 0.006")
Grip edge	15 mm (9/16") minimum at front edge of plate
Image area	550 x 612 mm (21.6" x 24.0") maximum
Spot size	10 microns
Resolution	2540 dpi, 100 dpmm
Repeatability	± 5 microns image to image; ± 25 microns plate to plate
Imaging speed	6 mm per second, using 36,000 rpm single-facet spinner
Throughput	Up to 30 2 up plates per hour
Plate handling	Manual
Plate types	Violet sensitive aluminium plates – silver and photopolymer Yellow safe light required for plate handling
Registration	Double-sided registration bar, with 2 factory-configurable systems available per machine: System 1: 220mm 'Bacher' press notch registration System 2: 425mm 'Bacher' press notch registration System 3: Corner registration System 4: Customer specific configuration
Approvals	CE certification: EN61000 for EMC include FCC Rule CFR47, EN60950 LVD, MET-UL approval: IEC950/UL950
Dimensions	1200 x 1560 x 720 mm (w x h x d) - 47" x 61" x 28.4"
Weight	225 kg (engine and front-end PC), 330 kg (crated for shipping)
Power	Engine: 98-132 VAC or 196-264 VAC at 50/60Hz, single phase less than 500 VA load Vacuum pump: either 100v 50/60Hz IEC unit or 230v 50/60Hz EN unit (separate connection)
Operating Environment	+15ºC to +25ºC, 10% to 60% relative humidity (non-condensing)
Interface	USB 2.0 connection to external Control PC
Cable	Maximum USB cable length 5 metres (16 feet)
Platform	External Pentium PC with Windows
RIP	Torrent (Harlequin) PostScript 3 RIP, PDF 1.5 compliant
File formats	Accepts 1-bit TIFF bitmap files, compressed formats CCITT Group 4, LZW and PackBits, PDF
Applications	Engine Control and Plate Management Software
Diagnostics	Remote diagnostics as standard
Job Archival	Writeable CD ROM

MAKO System4x

The MAKO System4x is the latest evol
the MAKO CTP family. It utili
technological breakt
de

Following focused research
feedback, ECRM developed the Syste
image both chemically processed violet plates
well as the next generation of violet processless
plates. The MAKO System4x is the first violet CTP
device in the world that offers customers a clear
path for moving forward to processless
technology while providing the highest quality
imaging of today's violet plates.

The System4x will be bundled with CtServer Pro,
our enhanced 1 bit tiff server, as well as a
3-year parts warranty.

As with all semi-automated MAKO CTP solutions,
the System4x employs ECRM's patented pin bar
registration system. This system provides the
ability to match multiple registration systems on
the fly for unbeatable accuracy.

Reasons to buy ECRM CTP

- Only three moving parts for ease of maintenance
- Small footprint for restricted environments
- Lowest electricity consumption, lower than thermal
- USA manufacturer, ISO 9001:2000 compliant since 1993
- Processless ready for "future-proof" investments
- Low cost violet diodes
- Widest possible format range

ECRM® Imaging Systems

ECRM MAKO CTP

- Sim
  produc
  printers
- Easy to ins
- Lowest cost of owner
  in its class
- Processless ready...

...the evolution of CTP

ECRM® Imaging Systems www.ecrm.com

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All ECRM products carry the CE mark.
All products are CSA & CSA/NRTL certified.
Class 1 Laser Products.
ECRM's Tewksbury facility is ISO9001 certified.

ML90063-01
Printed in the USA– 9/05

MAKO 2 CTP

The MAKO 2 CTP is the world's most cost-effective entry-level platesetter providing a simple stepping-stone into CTP production for press formats up to 22.0" x 26.4" (560 mm x 670 mm) with a full resolution range of 1200-3556 dpi. The MAKO 2 is the fastest 2-page CTP unit in its class imaging over 27 plates per hour at 2400 dpi.

Through a combination of simplicity, versatility and proven imaging technology, the MAKO 2 brings maximum CTP benefits including reduced operating costs and improved quality on press to 2-page printers.

The MAKO 2 is the ideal first step into CTP production.

MAKO 4matic

The MAKO 4matic is a full-featured, automatic CTP solution that brings all the benefits of automated plate loading to 4-page printers with the lowest cost of operation in its class.

Delivering higher quality, faster turnaround times and short-run profitability, the ECRM MAKO 4matic supports multiple cassette configurations with a reliable pin bar registration system providing unparalleled on-press accuracy for the widest possible range of plate sizes.

MAKO 4matic has the ability to deliver in excess of 20 Speedmaster 74 plates per hour at 2400 dpi and can accommodate any plate size between 11.4" x 15.2" (290 mm x 385 mm) and 25.0" x 36.5" (635 mm x 927 mm).

MAKO System4

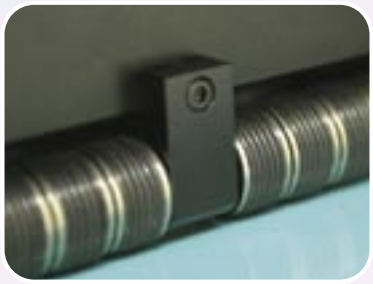
The MAKO System4 was designed with a printer's need for flexibility in mind. The world's first truly modular CTP, it can be purchased as a 2-page or 4-page device.

The MAKO System4 is the first CTP in the world that allows users to purchase a 2-page CTP today with the option of upgrading to 4-page capability at a later date – all done in the field with minimal cost.

The MAKO System4 offers a clear upgrade path for printers who currently run smaller plates but anticipate expanding their pressroom to include 4-page capability. This conversion path enables users to enjoy the ongoing cost benefits of ECRM technology with the option of increasing their capacity only when the need arises.

Both the 2-page and the 4-page options are competitively priced; each is the ideal solution for modern commercial printers looking to transition to the latest CTP technology when budget dollars are short but quality is of the utmost importance.

The System4 offers the same proven output characteristics of the MAKO CTP family with the flexibility to deliver high quality images for formats up to 24.2" x 29.3" (615 mm x 745 mm). The System4 ensures exact accuracy at all times, with an imaging speed of 28 plates per hour at 2400 dpi. The MAKO System4 employs ECRM's patented pin bar registration system for unlimited flexibility regardless of the number of presses that need to be matched.



MAKO 8 CTP

Smashing the price barrier for 8-page CTP, the MAKO 8 makes 8-page CTP affordable for all commercial printers. Offering high quality and press format flexibility, the MAKO 8 covers all formats for 2, 4, 6 and 8-page signatures, at the lowest possible cost of operation.

Supporting press formats from 10.0" x 10.0" (254 mm x 254 mm) to 32.4" x 45.0" (824 mm x 1143 mm), the MAKO 8 is ideal for multi-press environments, offering resolutions from 1200 to 3556 dpi and imaging up to 20 Speedmaster 74 plates per hour at 2400 dpi. With ECRM's standard 2-year MAKO CTP warranty, it offers the ultimate in peace of mind.

Lowest Cost of Ownership

- **Easy to Afford**
  No hidden extras – only plates and processor are required for production. The following components are always included:
  MAKO CTP platesetter – images all photo-polymer and silver halide violet plates from any ECRM approved plate manufacturer.
  Computer platform – pre-configured Intel Pentium 4, true plug 'n play capability.
  CtServer software – enables easy integration to any 1-bit TIFF workflow.
  Processor bridge – direct online connection to any ECRM approved processor.

- **Easy to Install**
  ECRM offers the fastest installation of any CTP manufacturer with devices up and running within two days, resulting in a seamless transition to CTP. User training takes hours, not days.

- **Easy to Maintain**
  MAKO CTP devices offer low ongoing support costs due to violet laser imaging and few moving parts, with built in reliability – the result of evolving from our installation base of over 12,000 Mako imagesetters.

the natural for evolution your business

MAKO CTP SERIES

MAKOs bring maximum CTP benefits, reducing operating costs and delivering improved quality on press, through their combination of simplicity, versatility and low cost of ownership.

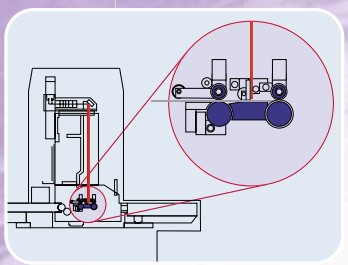
Simplicity

Simplicity is the cornerstone of the MAKO design. Queue up the imposed job, punch a plate, position it against the pin bar system and select "OK". The MAKO will do the rest. Using a straight-through imaging path, with no complex load/unload cycle, the plate is efficiently and accurately imaged before processing.

Versatility

MAKO platesetters can accommodate any plate size and thickness within their specified range. For multi-press shops, this means that you can convert all your 2-, 4- and 6-page presses to CTP production using one platesetter.

The MAKO CTP registration system is the most flexible and printer friendly in the industry. There are no restrictions on pin configurations or press type. This eliminates the need to change your existing workflow or to purchase costly transfer punches.



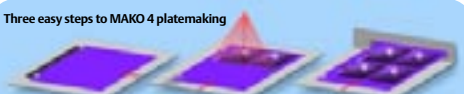
Cost of Ownership

Due to their simple design MAKOs have the lowest cost of ownership in their class. They provide a full range of features at a fraction of the cost of competitive systems. Two MAKO CTP models match every production need and budget:

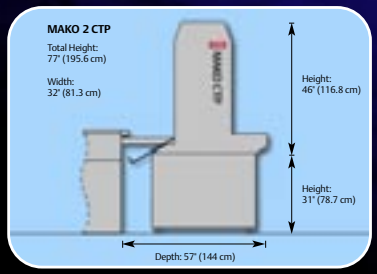
MAKO 2 CTP – the world's most cost-effective entry-level platesetter, providing a simple stepping stone into CTP production for press formats up to 22.0" x 26.4" (560mm x 670mm)

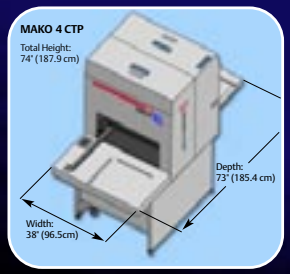
MAKO 4 CTP – full featured CTP solution, featuring online processor transport, CtServer software, computer platform and a format that matches the widest range of 4/6-page presses.

Three easy steps to MAKO 4 platemaking



1. Plate aligned against pin bar registration system
   File released
   Automatic exposure setting
2. Plate moves under imaging head
   Position controlled by Precision Drive System to within ±2µ
3. Plate automatically moves to either:
   Online processor (MAKO 4 CTP)
   Collection tray (MAKO 2 CTP)





SPECIFICATIONS

MAKO 2 CTP Plate sizes
Maximum:
22.0" x 26.4" (560 mm x 670 mm)
Minimum: 8.9" x 9.9"
(228 mm x 252 mm)
Use an edge registration pin bar for plate sizes over 22.0" x 22.0" (560mm x 560mm)

MAKO 4 CTP Plate sizes
Maximum:
25.4" x 37.8" (645 mm x 960 mm)
Minimum: 8.9" x 9.9"
(228 mm x 252 mm)

Media Types
Violet-sensitive metal plates. See media specifications for safe-light information

Recording Source
Violet laser diode (405 nm), available for photopolymer or silver halide plates

Resolutions
Seven resolutions from 1200 to 3556 dpi (472 to 1400 dpcm)
Resolution sets dependent on media type – up to seven choices

Maximum Line Screen
200 lpi (78.7 lpcm). Media dependent

Repeatability
0.001" (0.025mm) typical over six consecutive separations on plate. May vary according to media type and processing conditions

MAKO 2 CTP Processing
Plates are moved to the processor manually – automatic bridge option available

MAKO 4 CTP Processing
Online: The plate transport automatically moves the plate into the processor

Environmental
Power: 100 - 240 Volts;
3 Amps; 250 Watt maximum;
50/60Hz, single phase
Heat Dissipation: 850 BTU/hour

MAKO 2 CTP Weight
280 lbs (127 kg)

MAKO 4 CTP Weight
320 lbs (145.5 kg)

MAKO CTP Operating Conditions
62 - 86° F (17 - 30° C); relative humidity 45 - 65%, non-condensing. Relative humidity outside of this range may affect performance

Operating conditions outside plate media specifications may affect performance

DEALER STAMP

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All ECRM products carry the CE mark.
All products are CSA & CSA/NRTL certified.
Class 1 Laser Products.
ECRM's Tewksbury facility is ISO9001 certified.

Printed using plates made with ECRM Imaging Technology
ML90050

Magnus 400
Magnus 400 Quantum

superior speed and automation in 4-page CTP

- increases productivity with high-speed imaging
- enables high-quality imaging with new laser head
- SQUAREspot imaging technology on Magnus 400 Quantum produces superior image quality
- supports chemistry-free and processless plates
- provides choice of semi-automatic with ContinuousLoad or full automation
- modular design allows for easy growth path
- includes true 6-up drum size for greater imaging opportunities
- integrates seamlessly with Creo workflows, compatible with third-party workflows

High-speed imaging, quality, and flexibility to differentiate your business

The Magnus 400 platform is the new generation in Creo 4-page CTP devices. With a true 6-up drum size, the Magnus 400 platesetter allows you to image an extensive range of plate sizes, presenting new business opportunities. Exceptional imaging speeds, at up to 21 plates per hour, enable you to process jobs quickly with short lead times. The Magnus 400 platesettter also offers high-quality screening of up to 250 lpi and Staccato® 25 micron screening for superior imaging. Additionally, variable continuous resolution enables you to match the resolution to the job's requirements. Magnus 400 is characterized by advanced modularity and automation: you can choose from various loading, imaging, and speed options according to your printing needs. The semi-automatic device includes ContinuousLoad for faster production, and has a very small footprint. It is easily upgradeable to full automation with a single or multi-cassette unit for increased productivity and reduced labor costs.

Magnus 400 Quantum: SQUAREspot imaging and ultra-precise registration

The Magnus 400 Quantum platesetter is the top-of-the-line 4-page CTP device. With the full automation option, you'll have a powerful and highly productive platesetter. The Magnus 400 Quantum delivers impressive throughput at up to 28 plates per hour and features SQUAREspot® imaging technology. SQUAREspot combined with Staccato 20 or 10 micron screening allows you to produce photorealistic prints to differentiate your business.

Reduce costs and environmental damage with chemistry-free and processless plates

The Magnus 400 family supports conventional thermal plates, as well as chemistry-free and processless plates. These alternative plates significantly reduce costs by eliminating expensive chemicals and processors, remove time-consuming steps and conserve valuable floor space. They also help reduce the negative impact of plate processing on the environment.

Kodak

Creo Inc.,
a subsidiary of Kodak

THERMAL • DAYLIGHT-SAFE • CHEMISTRY-FREE

Presstek Vector TX52 Product Overview

High Productivity Chemistry-free Metal CTP

The Presstek Vector TX52 thermal platesetter and Freedom chemistry-free plates provide the short-run, small format (52cm and under) printer with a unique metal platemaking solution for higher productivity, cleaner operation and lower materials and production costs.

The system is designed for maximum ease of use to streamline your entire platemaking operation while delivering the speed, quality and performance you need to meet customer demands. Its compact size and ability to operate in normal conditions allow this CTP unit to fit into virtually any environment. Handling and imaging plates under normal daylight conditions eliminates the costs and special provisions required for safe-light and darkroom processing.

The Vector TX52 uses breakthrough technology to achieve high output of up to 20 plates per hour at low production costs. Using Presstek's patented ThinDrum and SureFire technology, the Vector TX52 offers superior quality and the consistency.

The Vector TX52 also features a small footprint, with the plate washer built directly into the device rather than requiring two separate units. The Freedom plate is inserted at the front, imaged and water-rinsed inside the unit before being discharged as a finished, press-ready plate. The Freedom thermal metal plate is designed for run lengths up to 25,000 impressions, and is priced competitively with polyester plates.

Freedom chemistry-free plates

Freedom chemistry-free thermal plates combine the performance characteristics of metal-based plates with state-of-the-art printing plate technology. After imaging, Freedom plates are automatically cleaned with water in the Vector TX52's integrated plate washer. Freedom plates require no baking, special cleaning fluids, or gumming, resulting in less waste material and a more environmentally friendly print shop.

Freedom plates - the lowest priced chemistry-free thermal CTP plates on the market - are ideally suited for short-run printing with run lengths up to 25,000.

Consistent, repeatable thermal imaging

Thermal imaging technology brings new freedom to CTP workflow, delivering sharp, well-defined, highly repeatable images. Plates are free from the inconsistencies inherent in conventional chemistry-based platemaking systems.

Exceptional on-press performance

In addition to enhancing productivity in the prepress department, Vector TX52 CTP also improves productivity in the pressroom. Freedom plates perform extremely well on press, delivering many of the familiar performance characteristics and stability of conventional aluminum plates. A unique surface structure on the plate results in exceptionally fast makeready, greater ink/water latitude and excellent durability. In addition, Freedom plates accommodate a wide range of industry

Vector TX52 Metal CTP
Product Features & Specifications

Vector TX52 Features:

- Thermal technology
- Images Presstek's Freedom aluminum base plates
- Daylight-safe
- No chemistry required
- Plate sizes up to 20" x 21" (525 x 505 mm)
- Streamlines plate production
- Compact design
- 2400 Resolution
- Metal CTP plates that are priced competitively with polyester
- Semi-automatic plate loading
- Integrated plate rinse with water
- Exceptional on-press set-up, performance and reliability
- Compatible with Momentum RIP and workflow

THERMAL • DAYLIGHT-SAFE • CHEMISTRY-FREE

Compact, reliable CTP solutions . . . without the hassles.

Print Friendly Page

Presstek's Dimension Series of CTP systems and Anthem thermal plates have been awarded a Graphic Arts Technical Foundation (GATF) InterTech Award.

The new Dimension CTP Excel systems and chemistry-free thermal plates are designed and optimized as an integrated system, resulting in higher productivity, cleaner operation, and lower cost – it's truly a smarter way to print.

The easy-to-use Dimension Excel Series platesetters are designed to increase overall plate production throughput and pressroom productivity. Based on Presstek's ProFire Excel thermal imaging, the system provides all the reliability, versatility, speed, and quality that printers—especially mid-size and smaller shops—require from their CTP investment. Productivity is improved by automating key steps and by eliminating time-consuming prepress procedures; more jobs are completed in the same amount of time. Dimension Excel platesetters are available in two-page and four-page models.

	2-page models		4-page models	
	225 Excel	250 Excel	425 Excel	450 Excel
High Productivity - 17 plates/hour		●		●
Standard Productivity - 11 plates/hour	●		●	
Profire Excel imaging - 16 micron spot size	●	●	●	●
Top load and unload plate handling	●		●	
Top load/rear unload plate handling		●		●
Plate pre-staging (load next plate while previous is still imaging)		●		●
Optional automated washer/stacker system		●		●
Helical write mode - wider range of supported screen angles (moiré reduction)	●	●	●	●
Optional high resolution set-up enabling support of high resolution screening	●	●	●	●
Optional three cassette fully automated plate loading system		●		●

For larger presses, the 8-page Dimension800 utilizes ProFire imaging technology and it is one of the most compact and efficient eight-page platesetters available.

Environmentally Friendly

Presstek is committed to making the offset printing process as environmentally friendly as possible, and the Dimension Series demonstrates the results of that commitment. Using a chemistry-free, thermal ablative process, daylight safe

THERMAL • DAYLIGHT-SAFE • CHEMISTRY-FREE

Presstek manufactures the **Dimension Excel** and **Vector TX52** series of chemistry-free CTP solutions. Both series are designed to streamline plate production while delivering the speed, quality and performance needed to meet customer demands. Dimension and Vector platesetters are compact, daylight-safe, chemistry-free, and easy-to-use.

Presstek CTP Product Overview — click on the product links for more details.

	Vector TX52	Dimension Excel	Dimension800
Formats	2-page	2-page / 4-page	8-page
Imaging Technology	Presstek Surefire	Presstek ProFire Excel	Presstek ProFire
Plate Media	Chemistry-free Freedom	Chemistry-free Anthem, Process-free Applause	Chemistry-free Anthem, Process-free Applause
Plate Run Length	25,000	100,000	100,000
Speed	Up to 20 plates / hr	Up to 17 plates / hr	Up to 11 plates / hr
Automation	Semi-automated	Semi-automated / Auto Plate Loader Option	Semi-automated
Resolution	2400 dpi / 200 lpi	2540 dpi / 300 lpi	2540 dpi / 200 lpi

RipIt VM 2-Up Platesetter

Available Features

In-Rip Trapping with TrapZone - Adobe® In-RIP Trapping allows you to quaikly execute complex trapping commands at the RIP. Our New TrapZone feature enhances In-RIP Trapping by letting you select separate tra settings for different parts of a page.

OpenRIP Remote - Control raster files on OpenRIP Symphony from MacOS-X and Windows workstations.® Preview, impose and send files to output devices. OpenRIP Remote also allows you to save raster files as PDFs, TIFFs and JPEGs to softproof at workstations or email directly to customers.

PDF Preview - Create low-res PDFs of RIPped files for workstation preview or email directly to customers.®

KOOLKolor™ Proofing - Create attractive, color-accurate proofs on a variety of inkjet printers and plotters.® KOOLKolor™ uses industry-standard ICC Profiles.

KoolToning™ Halftone Simulator - Now get traditional AM halftone dots and true rosettes on your® inkjet proof.

StripRITE™ Raster Imposition - OpenRIP Symphony's raster imposition feature allows you to generate® spreads for books, step and repeat business cards, and perform other sophisticated imposition tasks quickly and easily.

AdvancedScan™ - AdvancedScan scan to plate software is the ideal tool for paper-based originals, with its® powerful image capture and editing tools. Add images to text pages, assign spot colors, create tinted backgrounds, and create low-resolution PDF proofs to email your customers.

TIFFout and PSout - The new TIFFout and PSout drivers allow you to use OpenRIP Symphony to drive® alternate output devices that do not have the advanced features or workflow benefits that OpenRIP offers.

PerfectBLEND™ Hybrid Screening - Combines the benefits of AM and FM Screening for dramatically® higher linescreens and better press runs.

Export Proof - Save raster files as low-res PDFs, TIFFs and JPEGs to softproof at workstations or email ® proofs directly to customers

The SpeedSetter® VM4 4-Up CtP System is the big brother to the original SpeedSetter VM 2-Up platemaking s
The VM series are manual load and unload internal drum platesetters, tightly integrated with RIPit's award win
OpenRIP® Symphony™ workflow and an optional photopolymer plate processor. The VM's complete CtP work
allows you to increase prepress production, take control of digital files and drive every device in your shop.

The SpeedSetter VM4 uses a single, high-reliability violet laser diode to produce high quality, long running metal printing plates. All of the critical components are modular for easy maintenance. The VM4 can image violet plates ranging from 9.5" x 15" to 30" x 25" (compatible with all the common 4-up (half-size) and 2-up presses) and gives you the freedom to choose from the violet plates currently available on the market.

FUJIFILM

Saber Vx6000

Luxel Vx-6000 CTP

Saber Vx Series platesetters

are designed to
meet your needs *and* your budget.

You might not need the high level of throughput capability of a dual-laser Saber to start with, but the good news is you can still buy into the Fujifilm Saber violet performance, reliability and quality now with a single-laser version.

In single-laser mode, Saber Vx-6000 platesetters offer a competitive 23, 4-page plates per hour, ideal for those converting from film-based production or starting up with CTP.

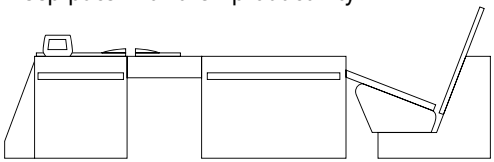
When you need more throughput, instead of repeating the entire platesetter research, testing, purchase and installation process, you just add a second laser to increase productivity – up to 37, 4-page plates per hour. Start it back up and everything remains the same – except of course, for the additional throughput.

SABER Vx-6000 FEATURES

- Extremely productive internal drum platesetters – 37, 4-up plates an hour (dual-laser, 2400 dpi)
- Landscaped and portrait plate loading for maximum printing press support
- Dual-laser models provide redundancy if one laser fails
- Violet imaging for ease-of-plate handling and lower cost of ownership
- Eight multiple resolutions supported from 1200 to 3657 dpi
- Manual and semi-automatic plate loading options
- Co-Res Screening for Violet option up to 250lpi

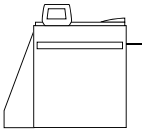
SABER CONFIGURATIONS

Saber Vx-6000 offers manual and semi-automatic models (manual input with automatic output to online processor). Both units feature an innovative new front loading plate input design and may be upgraded on site from manual to semi-automatic, allowing their plate-handling capabilities to keep pace with their productivity.



SEMI-AUTOMATIC

- Manual plate staging
- Automatic plate loading
- Single- or dual-laser imaging
- Automatic processing



MANUAL

- Manual plate staging
- Single- or dual-laser imaging
- Manual plate removal

PLATE PRODUCTIVITY

Resolution DPI	4-up Plates per Hour	
	1-Laser	2-Laser
1200	33	48
1219	32	48
1800	28	43
1828	28	43
2400	23	37
2438	22	37
2540	22	36
3657	16	28

FAST PLATE HANDLING

The manual and semi-automatic Saber Vx-6000 features automatic plate loading. The operator simply stages a plate on the loading platen and the Saber Vx-6000 automatically centers and loads the plate. The centering fingers of the Saber Vx-6000 have a unique feature as it prompts the operator for the required plate size prior to loading.

Plates are drawn onto the surface of the internal imaging drum, locked in place and held firmly in place under vacuum. After imaging, plates are ejected and transported to the integrated, high-speed online processor.

EASY TO MAINTAIN

A guiding principle in the design of all Fujifilm products is simplicity. Our manufacturing standards are the highest to ensure that Saber violet platesetters keep working reliably and predictably, plate after plate.

By designing down the number of parts, there is less to go wrong. Sub-assemblies are positioned for easy access, either by the operator or by Fujifilm engineers.

SCREEN
MEDIA TECHNOLOGY

PlateRite Micra

Flatbed Violet Plate Recorder

CTP

Innovation & Reliability

Compact, Entry-Level Plate Recorder

THE PLATERITE MICRA, A 2-PAGE (B3) FORMAT COMPUTER TO PLATE (CTP) RECORDER FROM DAINIPPON SCREEN, IS THE PERFECT TOOL FOR USERS OF 2-PAGE PRESSES WHO WANT TO ENTER THE CTP MARKET. CTP TECHNOLOGY IS FAMOUS FOR PROVIDING HIGH QUALITY AND REPEATABILITY, AS WELL AS REDUCING MATERIALS COSTS THROUGH THE ELIMINATION OF INTERMEDIATE PROCESSES. THE PLATERITE MICRA OFFERS ALL THE BENEFITS OF CTP IN AN AFFORDABLE, HIGH-QUALITY UNIT THAT IS DESIGNED TO FUNCTION IN PLACE OF, OR SIDE BY SIDE WITH, IMAGESETTERS IN A 2-PAGE OUTPUT PRODUCTION ENVIRONMENT.

Affordable CTP for 2-page (B3) printing

The PlateRite Micra offers high-quality CTP output in an affordable, compact, flatbed unit. And it isn't only the initial cost of the unit that is reasonable – to help keep maintenance costs even lower, the imaging system features a long-lasting violet laser light-source. The PlateRite Micra is even space-efficient – its footprint is just 1,480 x 865 mm (58.3" x 34.1").

High productivity and high quality

The PlateRite Micra supports plate sizes ranging from 250 x 330 mm to 516 x 580 mm (9.8" x 13.0" to 20.3" x 22.8"), and can output an impressive 23 plates/hour at 2400 dpi, all while maintaining consistently high quality. With this kind of productivity, throughput is sure to increase dramatically even with jobs that demand particularly high-quality output.

Increased productivity with optional punch units

The PlateRite Micra can be equipped with optional internal punch units. When internal punch units are used, the plates are punched immediately after being mounted on the bed. This method provides much greater registration accuracy than either manual or offline punching, eliminates human error, and allows faster press makeready, for increased overall productivity.

Optional autoloader cassette for 50 plate batch processing

The PlateRite Micra can be operated with an optional autoloader cassette that holds up to 50 plates. This autoloader cassette features automatic interleaf detection and removal, as well as continuous plate feeding, and enables the unit to process up to 50 plates without operator involvement. The PlateRite Micra can be connected with an optional online processor which creates a fully automated process from start to finish.

A plate being punched on the flatbed of the PT-R Micra

Standard semi-automatic loading type

PlateRite Micra specifications

Recording system	Primary scanning: Polygon mirror Secondary scanning: Flatbed with stepping motor
Light source	Violet laser diode
Plate size	Maximum 516 x 580 mm (20.3" x 22.8") Minimum 250 x 330 mm (9.8" x 13.0")
Exposure size	Same as plate size
Media	Violet sensitive silver halide, aluminum positive plates*
Media thickness	0.15 to 0.3 mm (5.9 to 11.8 mil)
Resolutions	1,200/2,400 dpi
Imaging speed	7.41 mm/second at both 1,200 and 2,400 dpi
Productivity	23 plates/hr at 2,400 dpi (516 x 580 mm / 20.3" x 22.8")**
Interface	16-bit SCSI-2 (single-ended)
Plate transport	Semi-automatic loading (standard) Fully automatic loading with interleaf removal (optional)
RIP	HQ-510 series
Options	Autoloader (Cassette capacity: maximum 50 plates) Extra supply cassette Punch units (up to two) Additional memory for image buffering Differential SCSI PCB SCSI cables (3 m and 20 m)
Dimensions (W x D x H)	Semi-automatic loading: 1,480 x 865 x 1,340 mm (58.3" x 34.1" x 52.8") Autoloading: 1,630 x 1,360 x 1,340 mm (64.2" x 53.5" x 52.8")
Weight	Semi-automatic loading: 395 kg (871 lbs.)/Autoloading: 525 kg (1,158 lbs.)
Environment	21 to 25°C (69.8 to 77°F), 50 to 70% relative humidity (non-condensing)
Power requirements	Single phase 200 to 240V (50/60Hz), 4A, 0.8 kW

* A yellow light suitable for use with violet-sensitive media is required for use of the semi-automatic loading type.
** With autoloader

Space requirements

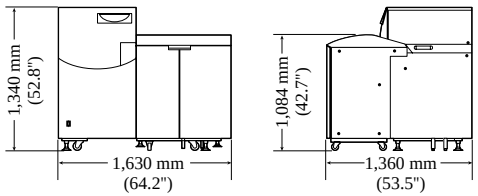


Diagram based on PT-R Micra with Autoloader.

Discover iCtP™ by Glunz & Jensen

- Affordable, easy to use inkjet CtP system
- Environmentally friendly, no processing chemicals
- Reduces plate production costs

iCtP™

PlateWriter™ 4200 System

PlateWriter™ 4200 - the next generation iCtP™

The PlateWriter™ 4200 is the industry's first inkjet Computer-to-Plate system capable of producing press-ready aluminum plates without the use of chemical processing. The PlateWriter™ 4200 inkjet Computer-to-Plate system is an innovative technology that sets new standards in the cost, flexibility and speed of offset printing for small to medium format printing.

The PlateWriter™ jets a patented Liquid Dot™ chemical solution on to non-photosensitive aluminum printing plates. The imaged plates are manually fed through a plate-finishing unit that dries the plates and bonds the liquid dots to the plate surface. The plate-finishing unit has a built-in gumming station to finish the plates and protect them from damage before going to press.

Advantages of iCtP™ Technology

The PlateWriter™ 4200 System offers significant benefits to the smaller and medium format printers.

- **Reduces plate production costs** – eliminates chemical processing operation and maintenance costs; reduced press make-ready time
- **Affordable** – the PlateWriter™ 4200 costs significantly less than current laser based plate imaging systems
- **Easy to use** – operates in normal daylight conditions; no pressroom changes required to plate clamping or press chemistries
- **Environmentally friendly** – no disposal of processing chemicals into waste stream
- **High quality output** – the PlateWriter™ screening is Dynamically Even Error Diffused Screening, optimized for iCtP™, ensuring moiré free prints with smooth highlights and skin tones, plus Harlequin Diffused screening.
- **Color proofing** – the customized Xitron RIP also supports a wide range of Epson color proofing systems
- **Flexibility** - easily integrates into standard plate workflow; capable of imaging any plate size in 2- or 4-up formats, and a wide range of thicknesses. 0.15 / 0.20 / 0.30 mm (0.006 / 0.008 / 0.012")

PlateWriter™ 4200 System is comprised of:

Inkjet Print Engine

The PlateWriter™ 4200 uses a customized, heavy duty inkjet imaging platform (Roland SP-300) ensuring repeatable and accurate registration of plates.

Finishing Unit

Imaged plates must be fed through the Finishing Unit, located below the Print Engine, to finish the plates by drying and bonding the liquid dots to the plate surface. The Finishing Unit includes a built-in gumming station to apply a protective gum layer.

Liquid Dot™

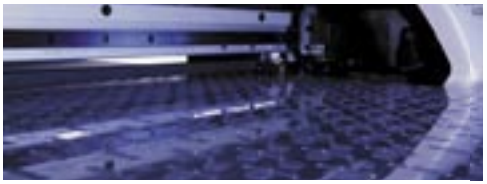
Liquid Dot™ is the brand name for the Glunz & Jensen imaging solution. This formulation is jetted onto the plate surfaces in the same manner that ink is jetted onto paper in a traditional inkjet printer. Liquid Dot™ is supplied in 220 ml cartridges.

Software & Proofing Support

Xitron RIP – a Harlequin based RIP which has become an industry standard due to its ease of use and integration with other workflows. The Xitron RIP software will also support the full line of proofing solutions from Epson.

Plates

The PlateWriter™ 4200 images onto grained, anodized and – best of all – non-photosensitive aluminium plates. Glunz & Jensen's certified plates will be made available through our approved resellers.



PlateWriter™ 4200 is designed and manufactured to be a robust and flexible system ensuring a long product life.

Easy to use – Operates in normal daylight conditions; no pressroom changes required to plate clamping or press chemistries.

Imaged plates must be fed through the Finishing Unit, located below the Print Engine, to finish the plates by drying and bonding the liquid dots to the plate surface. The Finishing Unit includes a built-in gumming station to apply a protective gum layer.

The PlateWriter™ 4200 features a convenient plate alignment guide to ensure accurate registration and transport through the imaging engine.

COMPUTER ...

Load any PDF or PostScript file onto the JetPlate computer. Check for fonts and trapping, and insure the file is ready to go.

JETPROOF ...

Output color matched, ICC profiled composite or progressive proofs.

JetPlate SYSTEMS

JETPLATE PROCESSOR ...

After imaging plate, run through our state-of-the art processor.

JETPLATE PLATEMAKER ...

Once the proof is approved, image Jetplates aluminum subtractive plates.

The complete CTP solution is available with:

- **In-RIP Trapping** with Trap-Pro Software
- **ICC Profiling** for complete color match press proofs
- **Imposition Software** with Ultimate Technologies Impo-Strip On Demand
- **Complete workflow solution** with Xi-Flow Workflow solutions
- **Densitometers** DigiDens T6CRs for total control over your calibrations
- **Plate Templates** establish plate settings and calibrations for each press

Jetplate will save $8220 / Month over using film.*
*Based on output of 400 plates per month
Go to our website and try the ROI calculator to see how much YOU will save!

www.jetplate.com

JetPlate 4000

The complete CTP package for smaller presses using plates up to 25"

The 4000 System includes:

- JetPlate 4000 platemaker
- JetPlate RIP
- Computer
- JetProofer
- JetPlate Processor
- Accessories: UV Covers, PlateMarker Fluid, and cables

The JetPlate 4000 platemaker ...

Images conventional Kodak aluminum plates up to 18.07" x 25". The JetPlate's optical plate registration system provides .002" (.05mm) repeatability. The JetPlate 4000 system produces high quality plates for commercial printing jobs performed by small format presses. Output resolutions 720, 1440, and 2880 dpi. Throughput up to 12 plates per hour.

Consumables …

Total cost of <u>ALL</u> consumables for JetPlate averages $1.50/sq. ft.
Includes: plate, chemistry, imaging fluid, etc.

JetPlate Imaging Fluids
Liquid-Light® imaging fluid exposes conventional metal printing plates

Kodak's Craftsman Printing Plates
The JetPlate System uses Kodak Craftsman Elite Printing Plates. Kodak's most popular conventional metal printing plate, available in an array of sizes and gauges.

Plates

Chemistry-Free Plate System

Are you looking for a trouble-free and environmentally friendly platemaking system without ANY compromise on press?

Agfa now offers you :Azura !

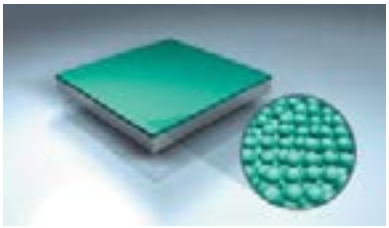
Agfa's mission is to develop innovative solutions.
Today, Agfa introduces ground breaking chemistry free CtP technology … :Azura.
:Azura finally eliminates the processing variables that you worry about and gives you the predictable and consistent quality that you need.
:Azura targets low to medium volume commercial printing in 4-up and 8-up applications.

AGFA

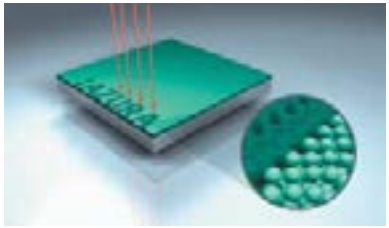
see more | do more

:Azura chemistry-free plates.

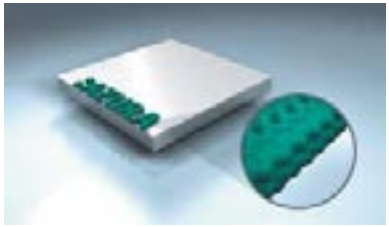
Agfa's mission is to develop innovative solutions that respond to your quality and productivity needs. Based on proven technology, the :Azura plate eliminates harsh chemical processing to give you a high-performance, highly productive and environmental friendly aluminium plate.



Unexposed :Azura plate.
The single layer coating contains ink accepting thermoplastic particles.



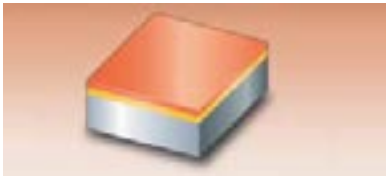
Exposed :Azura.
The coating absorbs energy from the 830 nm laser source. This fuses, the thermoplastic particles which bond to each other. The particles also bond firmly with the grained and anodised aluminium base.



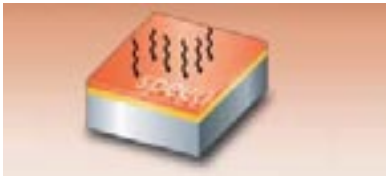
Gummed :Azura.
Application of the gum washes away the unexposed plate areas. These areas were not fused and are easily removed by the gum. :Azura is now ready for printing and have a protective gum layer.

:Thermostar plates.

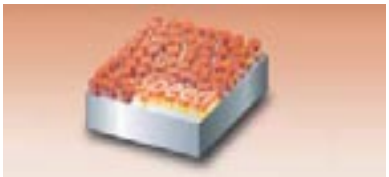
:Thermostar plates set a new standard for high-quality thermal imaging and give your pressroom the steady stream of high-quality plates it needs to stay productive and profitable. They integrate seamlessly with the world's leading thermal CtP systems, and bring the convenience of daylight operation to any environment.



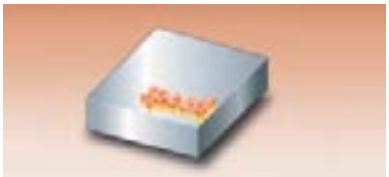
Unexposed :Thermostar plate.



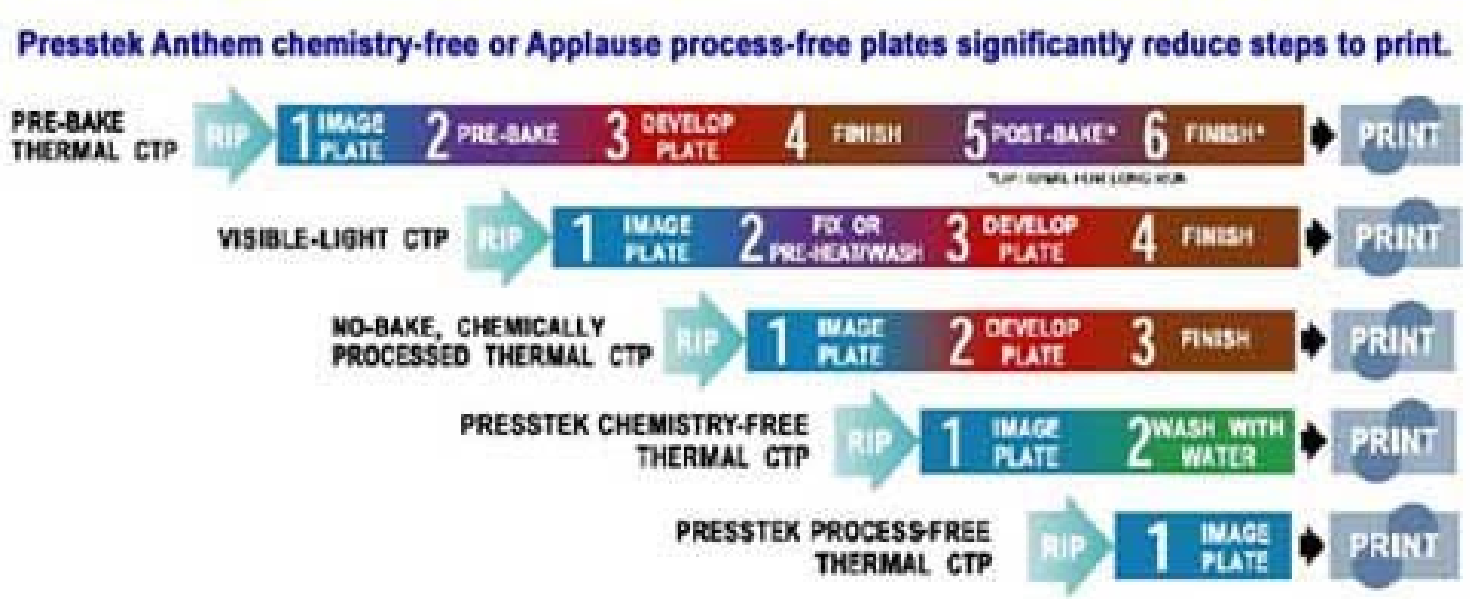
Exposure of :Thermostar.
The IR absorber in the layer converts light to heat which deforms the layer and alters the wetting behaviour to alkaline developers. This allows the developer to diffuse through the top layer and then dissolve the bottom layer. The unexposed areas remain less soluble to the developer with the top layer acting as a mask.



Development of :Thermostar.
Immersion in alkaline developer removes both layers in the exposed areas.



Finishing :Thermostar
The plate is then finished with standard gum.

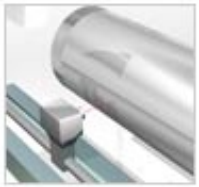

Presstek Anthem chemistry-free or Applause process-free plates significantly reduce steps to print.
PRE-BAKE THERMAL CTP
RIP
1 IMAGE PLATE
2 PRE-BAKE
3 DEVELOP PLATE
4 FINISH
5 POST-BAKE*
6 FINISH*
PRINT
VISIBLE-LIGHT CTP
RIP
1 IMAGE PLATE
2 FIX OR PRE-HEAT/WASH
3 DEVELOP PLATE
4 FINISH
PRINT
NO-BAKE, CHEMICALLY PROCESSED THERMAL CTP
RIP
1 IMAGE PLATE
2 DEVELOP PLATE
3 FINISH
PRINT
PRESSTEK CHEMISTRY-FREE THERMAL CTP
RIP
1 IMAGE PLATE
2 WASH WITH WATER
PRINT
PRESSTEK PROCESS-FREE THERMAL CTP
RIP
1 IMAGE PLATE
PRINT

KODAK THERMAL DIRECT Non Process Plate Flash Video

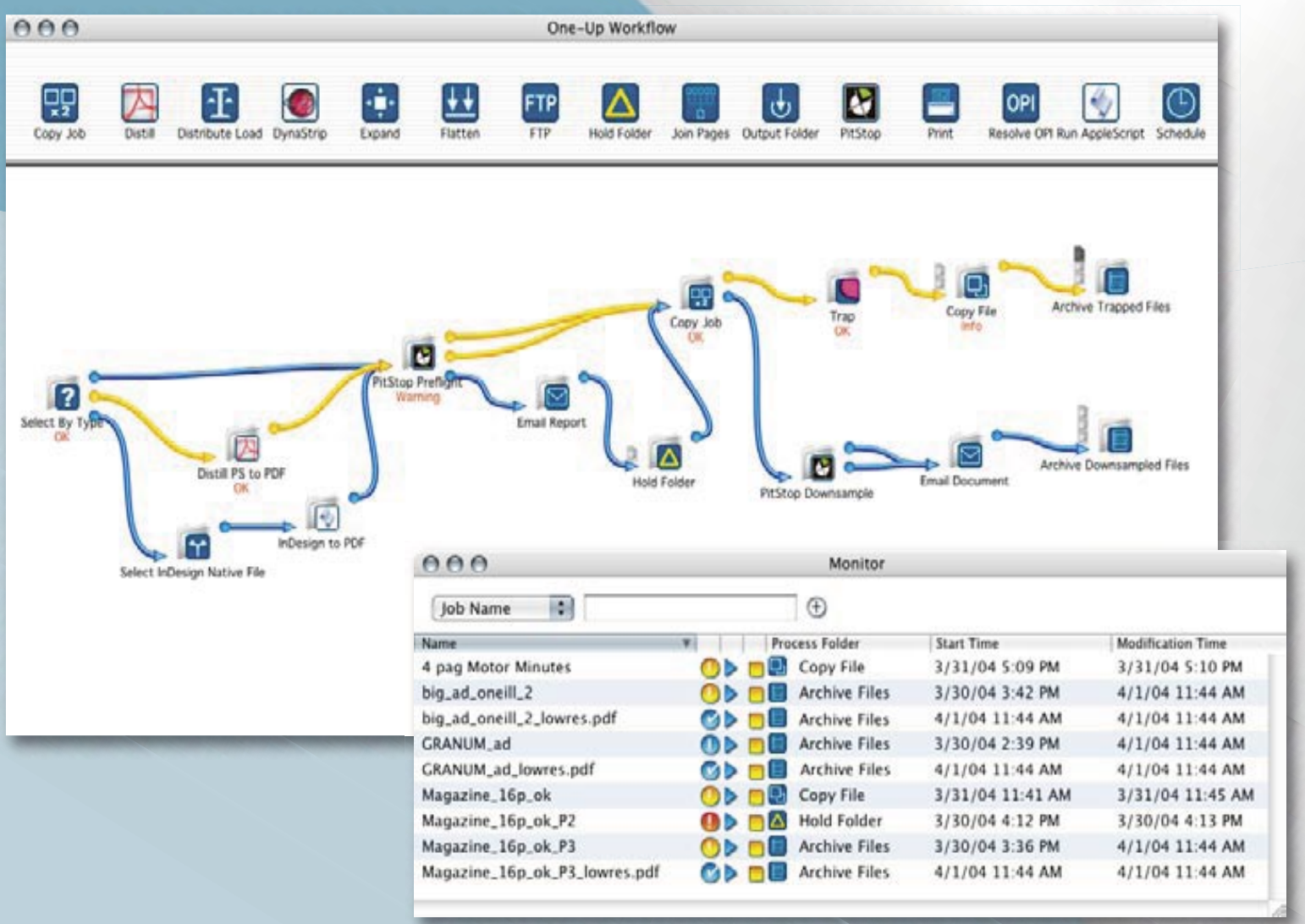
Take the complexity out of computer-to-plate with a truly process-less, chemistry-free thermal plate.

Just image, mount on press, and makeready. That's it.

After imaging, the plate is mounted on press and the dampening rollers engaged for 5 to 10 revolutions. This brings fountain solution to the plate surface and develops the latent image. Once the image becomes visible on the plate, the ink rollers are engaged. Makeready sheets carry away the dissolving coating as the press is brought up to color and registration adjusted in the normal manner. Within a few sheets, the background is clean and ink is at density.

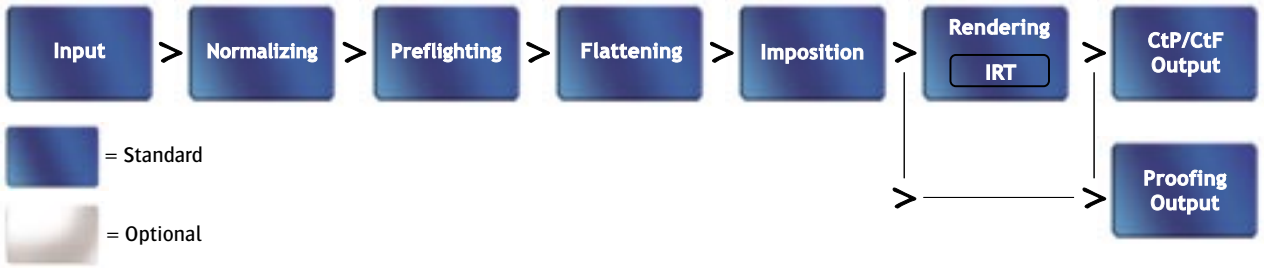
 Laser energy writes the image into the ultra-thin coating. Coating in the image areas becomes non-soluble in press fountain solution.	 The plate is mounted on press.	 Dampening rollers are engaged, covering the surface of the plate with fountain solution.	 Coating in the non-image areas dissolves in the fountain solution.
 The press ink rollers are then engaged, and the plate is initially covered with ink.	 The fountain solution plus the ink tack ensure that the dissolving coating is transferred to the blanket, and so to teh first few sheets.	 The makeready sheets carry the dissolving coating out of the press as the job is brought up to color and into register.	 Within a few sheets, the background is clean and ink is at density.

Workflows



Artwork Systems Odystar

:ApogeeX 2.5 Prime



Xenith uses a job ticket-based interface to provide easy definition and control of pre-press work. Each step in the workflow is defined by a "Module" that instructs the system how to process jobs before being passed to the next stage. Job tickets can be simple, such a RIP-Trap-Proof-Output. Or they can be more complex and include instructions for PDF conversion, preflighting, proofing and post-RIP imposition.

Job tickets are fully editable and scalable, which allows total flexibility in defining your workflow. Click the links on the right to discover the various actions available within a Xenith job ticket.

Evaluating ROI:

All The Parts—It's More Than Just a Platesetter

Platesetter

Front-End: Rip or Workflow

Processor: Plumbing? EPA Disposal? Maintenance?

Consumables: Chemistry, Plates, etc.

Proofing Device(s)

12 Steps To Implementing CTP

Howie Fenton & Hal Hinderliter

1. Begin the research phase with CTP products, technologies and plates (CTPP listserves, PrintPlanet.com, graphic arts shows, manufacturers)
2. Consider and Perform a Risk Assessment i.e. What part of product lifecycle are you in? What generation of technology are you considering? When will next generation by available?
3. Perform a Workflow analysis. Identify and fix bottlenecks that CTP won't fix (bottlenecks in estimating, order entry, CSR, preflight, etc)
4. Implement QC, process control & CMS. Get instruments, print targets, measure results and start controlling the process and building ICC profiles for proofers
5. Get preflight tools, create fast preflight procedures for both application & PDF files
6. Master all steps in PostScript and / or PDF workflow (i.e. color correction, trapping, imposition, file repair)

7. Get 1 or 2 digital proofers (contract, larger format inkjet plotter) test imposition and trapping, build and test ICC profiles, create transition strategy to digital proofs
8. Review network, file server, print queue, OPI, telecommunication & archiving equipment/strategies and procedures
9. Review and change infrastructure: physical plant changes, HVAC, electrical, disposal
10. Perform final price and contract negotiations (add performance criteria if applicable)
11. Buy platesetter, install, test targets and establish process control tolerances and procedures
12. Analyze the effectiveness of your digital workflow. Identify the work-around solutions created as short term fixes and create longer term solutions

This Presentation will be available on my Web Site:

www.JohnCliffordGraphics.com