MAKO CTP

- High quality 2-page platesetter

- Inexpensive to own and operate

- Violet-laser imaging

- Proven Mako imaging technology

- Configurable for multiple press sizes

- Built for long-lasting reliability

- Easy to maintain

- Open digital workflow options

...the natural selection for 2-page visible light platesetting

In addition to savings on media, moving to CTP offers commercial printers new ways to satisfy the needs of key clients. By optimizing press output and delivering higher quality, ECRM CTP solutions provide the ultimate competitive edge.

MAKO CTP Systems

FEATURES AND BENEFITS

- **Proven imaging** – Mako imaging technology is renowned for its quality and reliability, with over 10,000 installations worldwide

- **Accuracy** – pre-punched plates are aligned on a pin-bar system, matching the notches on your press, providing consistent plate registration

- **Versatility** – choose from manual load/unload or online processing for easy operation and integration into your production environment

- **Open** – ECRM's software systems offer open and flexible workflow configurations

- **Ease-of-use** – convenient plate handling and yellow-light operation in a small footprint

CTP plate production - rapidly becoming the standard for large format work - is now available for B3+ and 2-page presses, bringing your press-room faster job cycle times, increased profit margins and higher print quality.

As a commercial printer, trade shop or quick printer, producing high quality output and maintaining a cost-effective operation is critical to your success in the highly competitive 2-page market.

With Mako CTP, you can cost-effectively exceed the expectations of your most critical clients by providing sharper and more consistent printed results.

Mako CTP provides a simple and easy transition to CTP production with digital workflow options that can be configured to suit a wide variety of production environments. Based on tried and tested technology from the renowned Mako imagesetter family, the Mako CTP system delivers high quality, 2-page platesetting at a price you can afford.

Quality – Mako CTP helps maintain and build your customer base by ensuring cleaner and crisper printing. Direct imaging provides first generation dots with enhanced definition at all resolutions and finer control over highlights

and shadows. The advanced violet imaging technology delivers fast imaging speeds, razor-sharp dots and a choice of resolutions for job output up to 200 line screen with total confidence.

Reliability – Mako CTP systems are built to satisfy your customer on time, every time. Innovative and robust design, together with high quality manufacture to ISO 9001 standards delivers long-lasting reliability year after year. This level of reliability is a result of the simple and unique Mako design, which ensures maximum product uptime and ease of maintenance.

Versatility – Mako CTP platesetters are built to be flexible, delivering precise imaging on violet-sensitive metal plates for 2-page presses. Mako CTP systems can operate in manual mode or with an automated plate output transport to enable direct connection to an online processor.

With a selection of resolutions, a choice of manual or semi-automatic operation and an array of flexible workflow options, the Mako CTP system can be configured for many different commercial applications.

High Value – Backed by ECRM reliability and ease-of-use, a small footprint and simple integration into most digital workflows, Mako CTP is the highest value 2-page CTP

solution on the market. It is inexpensive to purchase, operate and maintain, providing the fast ROI needed by growing businesses.

Mako CTP flexibility includes many popular press sizes		
Printing Press	Size (inches)	Size (mm)
AB Dick 300 Series	10.00 x 15.00	254 x 381
AB Dick 9800	13.00 x 19.38	440 x 492
Adast 500	20.50 x 16.33	521 x 415
Adast 547	15.00 x 20.47	381 x 520
Hamada	14.37 x 20.47	365 x 520
Hashimoto Impulse 20	14.37 x 20.47	365 x 520
Heidelberg GTO	15.75 x 20.08	400 x 510
Heidelberg Speedmaster 52	18.07 x 20.67	459 x 525
Itek 3985	12.19 x 17.09	335 x 485
Komori Lithrone 20	15.75 x 20.87	400 x 530
Roland Practica	15.75 x 20.08	400 x 510
Ryobi 510 NP	14.37 x 20.47	365 x 520
Sakurai Oliver 52	20.67 x 15.75	525 x 400
Shinohara	14.57 x 20.47	370 x 520
Shinohara 52	20.08 x 16.14	510 x 410

MAKO 2 CTP

ECRM and the Mako CTP system make it easy to transition to Computer to Plate with an all-digital workflow.

The Mako 2 CTP system consists of two main elements, which make integration into your existing production environment simple and fast.

- **Mako 2 platesetter:** highest value 2-page platesetter on the market.

- **Digital workflow:** three options to suit your need and budget.

Mako 2 platesetter – The heart of the Mako 2 CTP system is a totally new plate-setter using state-of-the-art violet imaging technology to provide high quality pro-duction and versatile plate handling at the lowest possible cost.

The imaging technology is the same proven technology used in the Mako imagesetter. Renowned for its quality, reliability, ease-of-use, and low maintenance, Mako imaging devices have been installed at over 10,000 commercial printers, trade shops and service bureaus around the world.

Operation – When a plate is to be imaged, it is loaded into the Mako 2 in yellow safelight conditions and registered to the pin-bar system. The pin bar is configured with the same notch positions as the press that will run the plate, ensuring fast in-register press

mounting. This pin-bar system is interchangeable, allowing the same platesetter to be used for a wide variety of presses.
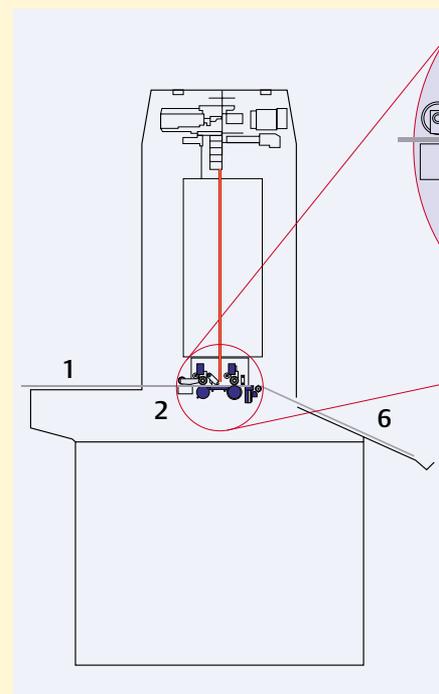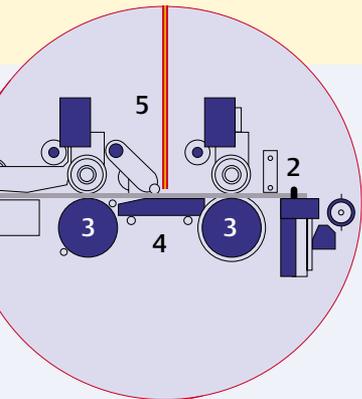
The precision drive system then engages the plate and feeds the plate under the violet imaging laser with exacting accuracy and speed. Once imaged, the plate is fed to the output tray where it can be taken by hand to a suitable processor. For enhanced auto-mation, an optional processor bridge can be configured to the imaging device to enable online processing.

Digital Workflow – A productive platesetting system needs an efficient digital front-end to ensure that the right jobs are delivered for imaging at the right time. ECRM's software solutions enhance and streamline your entire workflow, providing the digital link between your production system and your Mako CTP.

High Value – The combination of ECRM's software systems and Mako CTP provides commercial printers, trade shops and quick printers with a powerful and cost-effective prepress solution that maximizes productivity and minimizes mistakes on press.

1 *Plate registered against pin bar system - notches match those on the press*

2 *2-page spreads accommodated with ease (up to a maximum plate size of 560 x 560mm)*

3 *Color bars, printer's marks and trim marks included in B3/A2 format*

1) Plate loaded against pin bar system
2) Pin bar matches the notches of the press for consistent registration
3) Imaging rollers move plate across imaging plane
4) Imaging plane swept by imaging laser
5) Violet laser technology for yellow-safelight operation
6) Output transport system - manual or automated
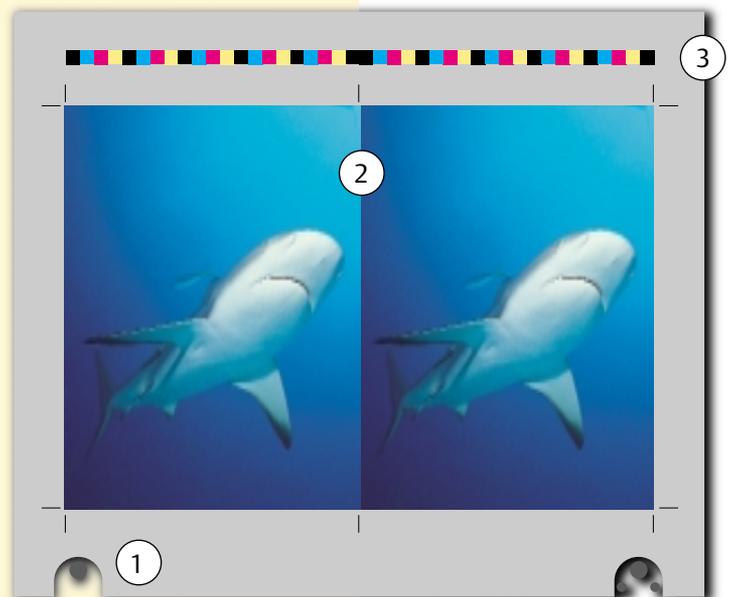
MAKO CTP Workflow

**E**fficient workflow is a key element in the challenge to get jobs to press on time, without errors.

To ensure a fast and easy transition to CTP with a Mako platesetter, ECRM offers a choice of software solutions capable of turning your traditional film-based production into a highly efficient and easy-to-use CTP workflow production system.

TIFF-based Workflow – The standard configuration for any Mako CTP system, ECRM's TIFF-based CtServer solution provides a simple mechanism for connecting to existing prepress systems.

CtServer is a Windows NT-based software application capable of accepting industry standard TIFF files and imaging them onto Mako CTP systems. The CtServer application is the interface between workflow systems, RIPs and the Mako CTP. By controlling the output and media handling of the CTP device, CtServer enables your existing workflow to operate in a highly efficient manner.

ECRM RIP – For printers looking for a simple, RIP-based digital output solution, the ECRM RIP with a ProofReady inkjet proofing option provides the answer. Installed at thousands of printers around the world, the ECRM RIP has earned a reputation for reliability and quality.

The ECRM RIP is a complete RIP Management System base on proven Harlequin technology, a leader in RIP development. It harnesses the power of an ultrafast PostScript 3 RIP that can process a wide variety of file formats including PDF, EPS and TIFF. The ECRM RIP runs with the same easy-to-use
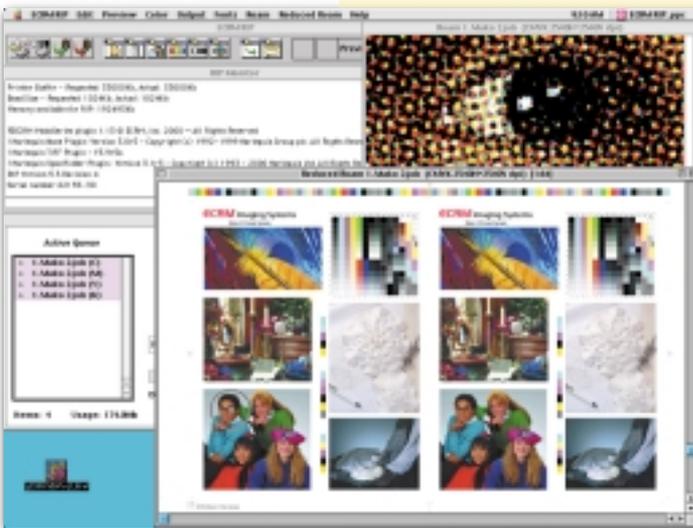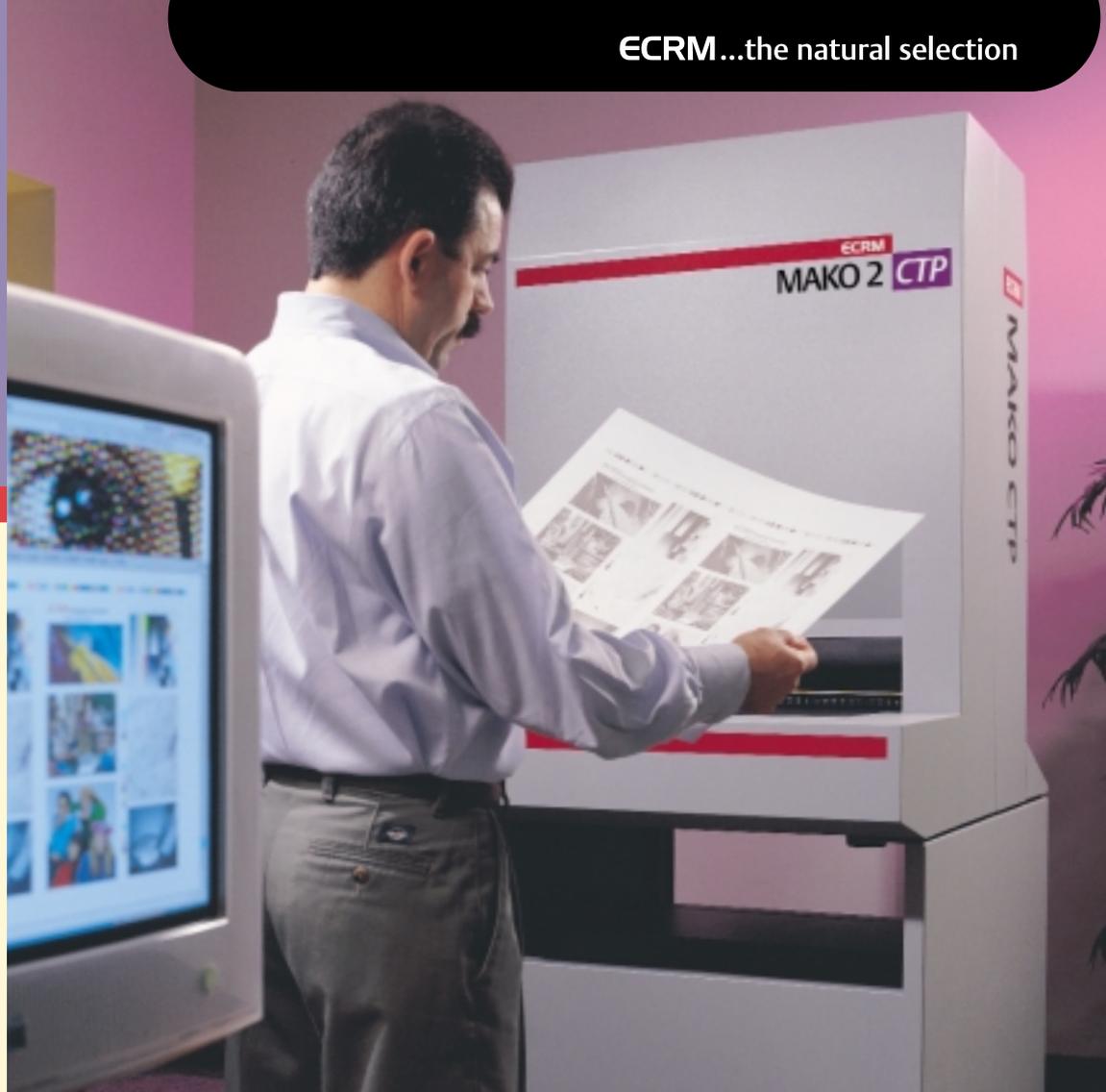
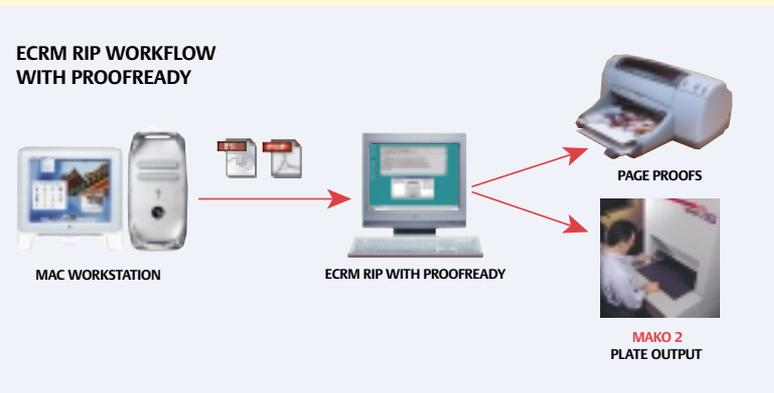user interface on Windows and Macintosh platforms, and offers color-managed inkjet proofing support.

Digital Proofing – Proofing is a critical element for any CTP production environment. To minimize errors on press, a CTP workflow requires that every job be proofed before being output to plate. ECRM's low-cost proofing solutions allow you to output color-managed inkjet proofs using cost-effective inkjet proofers. The same RIP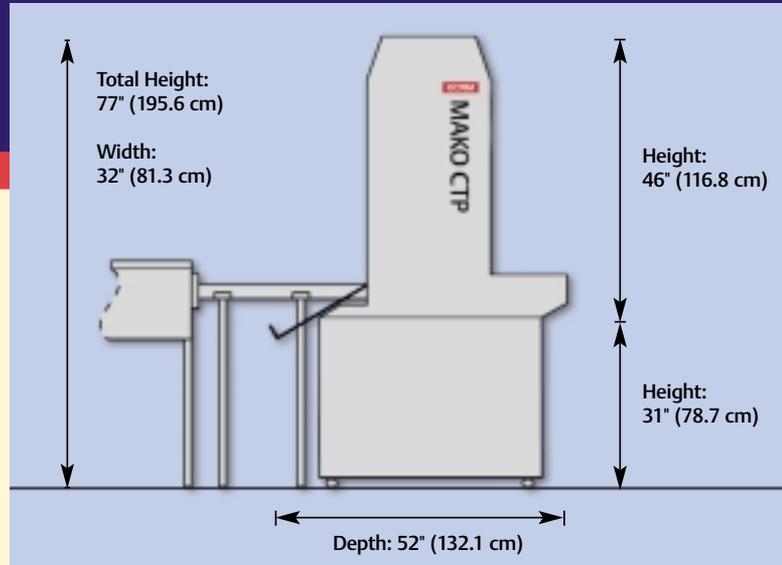 can then output to your Mako CTP system. Using the same RIP technology for both proofing and plating provides consistent, reliable and accurate results.

High Value – No matter what the choice, ECRM's software solutions enhance and stream-line your entire workflow, providing the digital link between your production system and your Mako CTP. The combination of ECRM's workflow solutions and Mako CTP provides commercial printers, trade shops and quick printers with a powerful and cost-effective digital production management solution.

ECRM RIP WORKFLOW WITH PROOFREADY

MAC WORKSTATION

ECRM RIP WITH PROOFREADY

PAGE PROOFS

MAKO 2 PLATE OUTPUT

Specifications

Total Height: 77" (195.6 cm)

Width: 32" (81.3 cm)

Height: 46" (116.8 cm)

Height: 31" (78.7 cm)

Depth: 52" (132.1 cm)

Plate sizes
Maximum: 22.0" x 22.0"
(560 mm x 560 mm)
Minimum: 10" x 10"
(254 mm x 254 mm)
Using a pin-bar configured for edge registration, the maximum plate size can be extended to 22.0" x 26.4" (560 mm x 670 mm).

Media Types
Violet-sensitive metal plates, sensitivity up to 10μJ/cm^2. Yellow-safelight environment required for plate handling.

Media Thickness
0.0055" to 0.012"
(0.14mm to 0.3mm)

Recording Source
Violet laser diode (405 nm, 5 mW)

Resolutions
Seven resolutions from 1200 dpi to 3556 dpi (472 dpcm to 1400 dpcm)

Maximum Line Screen
200 lpi (78.7 lpcm)

Plate Throughput - Landscape
1270 dpi: 46.5 seconds
2540 dpi: 2 minutes 5 seconds
Production speeds based on a 15.7" x 20.08" (400 mm x 510 mm) plate. System performance tests conducted in landscape orientation at 1270 dpi, 133 lpi and 2540 dpi, 200 lpi. Performance is dependent and may vary according to media type and processing conditions.

Plate Throughput - Portrait
1270 dpi: 59.3 seconds
2540 dpi: 2 minutes 39 seconds

Production speeds based on a 15.7" x 20.08" (400 mm x 510 mm) plate. System performance tests conducted in portrait orientation at 1270 dpi, 133 lpi and 2540 dpi, 200 lpi. Performance is dependent and may vary according to media type and processing conditions.

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

Processing
Manual: After imaging is complete, the plate is moved to the processor by hand.
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
Weight: 280 lbs (127 kg)

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

DEALER STAMP

ECRM® Imaging Systems   www.ecrm.com