

Delivering higher quality, faster turnaround times and short-run profitability, the ECRM MAKO 4matic brings maximum CTP benefits to 4-page printers with the lowest cost of operation in its class.

## MAKO 4matic



The MAKO 4matic is an automated, full-featured 4-page CTP solution, developed for commercial printers that demand high quality output while maintaining a cost effective operation. The MAKO 4matic provides a simple and easy transition to CTP production, with no compromise on quality, reliability or productivity – the ideal replacement for aging imagesetter technology.

### Simplicity

The MAKO 4matic delivers productivity and reliability by using a straight-through plate path with no complex load/unload cycle. Plates stored in a light-tight cassette are automatically fed to the integrated pin registration system. Using the same configuration as the press provides excellent repeatability, easy plate mounting and shorter make-readies. Once registered, the plate is moved under the violet imaging laser by ECRM's patented precision drive system, before being automatically transferred to a suitable online processor.

### Productivity

MAKO 4matic has been developed for busy print shops where flexibility in production is essential.

Accommodating the widest range of 2-, 4- and 6-page presses, the 4matic

has the ability to deliver in excess of 20 4-up plates per hour at 2540 dpi.

### Flexible formats

The MAKO 4matic can accommodate any plate size between 15.15" x 15.15" (385 mm x 385 mm) and 25.0" x 36.5" (635 mm x 927 mm). The largest format provides generous space for oversize jobs such as 6-page gatefolds, with all printers marks and color bars in position. Both cassette and pin bar can be changed in minutes to accommodate different plate sizes and/or press registration systems.

### MAKO 4matic imaging

MAKO 4matic imaging is based on proven technology in use at over 10,000 printers and tradeshops worldwide. It delivers consistent high quality with enhanced dot definition at resolutions up to 3556 dpi.

### Modular design

The simple modular design of the 4matic's optical assembly allows for easy on-site filter replacement. This ability to change between silver halide and photopolymer ensures compatibility with the key CTP plates on the market, both now and in the future. The modular design also allows for simple maintenance routines, keeping operating costs to a minimum.

### No hidden extras

MAKO 4matic is a full-featured CTP solution that just needs plates and a processor to get you running. The following components are included:

- MAKO 4matic CTP platesetter** – photopolymer or silver halide capability
- 25 or 60-plate cassette** – with trolley for easy loading
- Computer platform** – pre-configured Intel Pentium 4
- CtServer software** – enables easy integration to any 1-bit TIFF workflow
- Processor bridge** – online connection to processor
- Slip sheet removal system** – point of sale option (see dealer or ECRM representative for details)

### Easy installation/integration

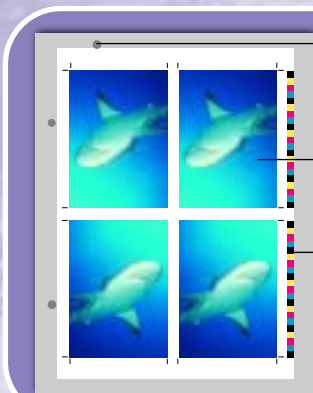
The MAKO 4matic is easy to install, operate and maintain. It uses standard power outlets and is easily integrated into existing workflows through 1-bit TIFF compatibility.

### Savings

A range of design features have been incorporated to make the 4matic easy to integrate, operate and maintain. The MAKO 4matic provides savings in materials, time and resources, while minimizing the ongoing costs of ownership. It also delivers savings on press, reducing makeready with faster registration and clean up. Time savings result in increased press utilization, cost-effective productivity and rapid return on investment.

### Pin bar to Press Registration

- 1 Three-point plate registration system – ensures exact placement of plates. The three-pin system (one at the leading edge of the plate and two on the side) can be custom configured depending on the plate size and press registration system.
- 2 4-page impositions accommodated with ease up to maximum plate size of 25" x 36.5" (635 x 927 mm)
- 3 Color bars, printer's marks and trim marks included in 4-page plus format



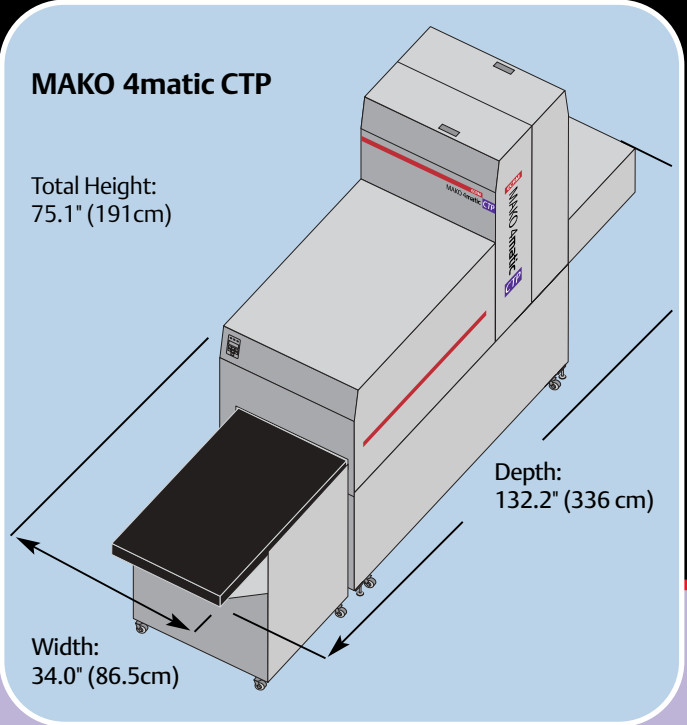
# SPECIFICATIONS

## MAKO 4matic CTP

Total Height:  
75.1" (191cm)

Depth:  
132.2" (336 cm)

Width:  
34.0" (86.5cm)



Printing Press	Size (inches)	Size (mm)
Ab Dick 9920	13.19 x 19.37	335 x 492
Ab Dick Titan 7132A	13.19 x 19.09	335 x 484
Adast 500	20.50 x 16.33	521 x 415
Akiyama 28	21.65 x 27.56	550 x 700
Akiyama J Print 26	22.05 x 26.38	560 x 670
Hamada	14.37 x 20.47	365 x 520
Hashimoto Impulse 20	14.37 x 20.47	365 x 520
Heidelberg GTO 52	15.75 x 20.08	400 x 510
Heidelberg Quickmaster 46	13.39 x 19.88	340 x 505
Heidelberg Speedmaster 52	18.07 x 20.67	459 x 525
Heidelberg Speedmaster 74	23.82 x 29.33	605 x 745
Komori Lithrone 20	15.75 x 20.87	400 x 530
Komori Sprint 28	23.62 x 28.35	600 x 720
Roland Practica	15.75 x 20.08	400 x 510
Roland Favorit	23.82 x 28.74	605 x 730
Ryobi 510 NP	14.37 x 20.47	365 x 520
Sakurai Oliver 52	20.67 x 15.75	525 x 400
Shinohara 52	20.08 x 16.14	510 x 410

### Plate sizes

Maximum: 25.0" x 36.5"  
(635 mm x 927 mm)  
Minimum: 15.15" x 15.15"  
(385 mm x 385 mm)

### Media Types

Violet sensitive (405 nm)  
photopolymer or silver halide metal  
plates

### Recording Source

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

### Resolutions

Resolutions from 1200 to 3556 dpi  
(472 to 1400 dpcm). Resolution  
sets dependent on media type

### Repeatability

0.001" (0.025 mm) typical over six  
consecutive separations on plate.

### Air Supply Requirement

5 BAR @ 283L/min  
(10CFM @ 75 PSI)  
(Required for slip sheet removal  
option)

### Processing

Online and fully automated

### Environmental

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

### Weight

900 lbs (409 kg)

### 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

A sample of popular presses covered by MAKO CTP formats

**ECRM<sup>®</sup> Imaging Systems**

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