

# CSI & OUR GREEN MACHINE

## THE GREEN ADVANTAGES OF PRINTING WITH CSI KARAT 74 DIGITAL WATERLESS PRESS ARE MANY :

1. Minimal setup waste - a traditional offset press wastes hundreds of setup sheets per press signature while bringing the ink "up to color" and finding the correct ink/fountain solution balance. The karat's waterless inking system requires about 10 sheets of setup.
2. Because we image direct to press, we eliminate the need for film output, film processing, and chemical plate processing. All of which create environmentally hazardous waste. The karat uses a laser to image directly on plate.
3. We run everything in 4 color process. That means we don't wash the press several times per shift with solvent based cleaners in order to switch out PMS colors.
4. At the end of the day we use a solvent-based cleaner to "wash down" the ink chambers and rollers of the press. This process is 100% automated by the press. The solvent is piped through a containment system that reclaims the waste solvent and filters it for re-use the next day. Consequently, we use a fraction of the solvent that other presses (yes even the ones running soy-based inks) use on a daily basis.
5. Today's market demands extremely fast turnaround. In order to accomodate tight deadlines printers employ inline coating systems that flood a press sheet with varnish, in effect sealing the sheet. Unfortunately, the varnish releases a fair amount of VOC's into the air. The Karat 74 using a Flood Aqueous coating unit which uses a VOC-free water-based coating as opposed to solvent-based varnish.
6. We use aluminum press plates which are picked up by a local recycler on a monthly basis. Our house stock contains 25% Post-consumer recycled content and FSC certified wood pulp.



**74Karat**

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