

KAMMANN ECO-FRIENDLY SOLUTIONS

Kammann is committed to providing best-in-class printing equipment and application solutions that can also reduce the impact on our environment. Our precision-based printing products are designed to elevate the product brands they support and provide sustainable production methods for environmentally-responsible operations.

This eco-friendly commitment is evident in each of our product segments:

Direct Glass & Plastic Printing.

- **Label-less Bottle Equals “Clean Scrap.”** Glass is lauded as the one true “cradle-to-cradle,” or endlessly recyclable product, as it is the most easily processed recycled container. Even when consistently recycled, the quality of the glass never deteriorates. Adding a label, however, will render the glass un-recyclable if the label can’t be completely stripped, rendering it “dirty scrap.” Direct-to-glass print solutions, using eco-friendly lead free inks, ensure that the glass can be completely recycled indefinitely.
- **Direct Printing Allows Plastic Molders to Practice Green Manufacturing.** The same recycling advantages of direct glass bottle printing process can be applied to the plastic container market. Plastic Molders practice green manufacturing by grinding rejected or scrap bottles in-house and then recycling the material. If the label can’t be stripped off the container, the dirty scrap is usually sold to an outside vendor, rather than recycled in the plant.
- **Direct Printing Reduces Carbon Footprint.** Laminated labels contribute greatly to carbon footprint. Labels have many layers that need to decompose, including transparent plastic film and transparent pressure sensitive adhesive layers. Direct printing is a viable alternative that reduces the materials and inventory requirements, and greatly increases the recyclability of the container.
- **Excess Material Elimination.** A finished label is “cookie cut” from a larger master version of the finished product. The finished label on a bottle is usually only 1/3 of the original, leaving 2/3 non-recyclable garbage. Direct printing eliminates this waste.



CD/DVD Printing.

- **Digital Disc Printing Eliminates Waste.** Kammann developed digital disc printing, which requires no films, plates, or press setup. Proofing is done on the same press using the same inks as the production run. Minimizing film and ink in a system that offers the highest quality disc printing and highest throughput in the industry allows Kammann customers to simultaneously achieve production efficiencies and sustainability goals.

Web Printing.

- **Minimized Waste for Medical Device Production.** Web-based roll-to-roll screen printing is advancing the production of disposable medical devices, offering a better product in less production time. Precision end-to-end tolerance management results in less rework, which in turn results in less waste. In addition, roll stock is less sensitive than sheet material to dust and contamination. Roll-to-roll production offers a distinct advantage of continuous motion for dedusting, ionizing and thermal stabilization.

