



Inkjet printing technology: the key for a greener, cost-efficient and sustainable pharma manufacturing

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Companies around the world are looking for new ways to reduce their environmental impact. For the pharmaceutical manufacturing industry, the reduction in waste and energy, air and/or water consumption on a production facility has become an important objective. Hence, pharma manufacturers are redesigning packaging processes to produce less waste and increase the overall efficiency.

Another important aspect is the use of materials and components which are environmentally friendly. For example, a component that clearly needs to be taken out of the equation is the mercury lamps used in the printing units. Scientific evidence on the harmful consequences of mercury use led to the adoption of measures to revert their effects at the global level, with international regulation and use restrictions worldwide (Minamata Convention, 2017). In addition to being detrimental to the environment, the energy usage in mercury lamps is much higher than that of their technologically more advanced UV LED counterparts.

Pharmaceutical packaging printing is also shifting towards full digital inkjet printing technologies as they offer a greener cost-efficient production, as well as providing integration in a 4.0 industry environment.



In2 Printing Solutions (In2PS), offers digital UV DOD (*drop-on-demand*) printing solutions for primary and secondary packaging of both solids and liquids. The company was founded around digital printing to offer a cost-effective and sustainable alternative to analogue printing methods.

Pharmaceutical companies that wish to optimize processes and reduce overhead would greatly benefit from the incredible flexibility that UV DOD printing gives. Its ease of use and the change-over time are second to none. There is no need to store, clean or exchange print mats for all the different artworks. All the information for a new job is stored electronically, with the added data integrity and traceability benefits added.

The demand in a complex, changing and environmentally demanding sector such as pharmaceuticals requires technology that can adapt to these specificities without compromising production efficiency.

A drug produced in one manufacturing plant, may need to be produced in over 20 different languages. The result is a logistical nightmare of different lidding foils. With the possibility of printing in-house digitally, the only material needed to be stored is the correct type of foil.

These digital machines are fully integrated with the existing ERP system, they enable serialization, coding, and CMYK printing of blister packs, foils and labels.



In2PS digital solutions are strategically designed for lean in-house production. They are solutions that adapt to the needs of each customer to produce on demand, reducing costs and materials. With In2PS the reduction in packaging material that needs to be stored is well over 75%. In2PS offers a range of adapted solutions for pharma, including roll to roll foil printing, inline printing or direct printing on finished products such as blisters.

In2PS always works with the objective of offering its customers a state-of-the-art solution and a solid and sustainable investment. Its mission is to improve the lean



production of all its customers with printing solutions that add value to their processes. The philosophy of In2PS is to give the best possible solutions to its customers, with great adaptability and a fair price. This fair price covers the initial CAPEX investment and then also the running costs after the investment. Costs of ink, servicing, consumables, etc... are much more competitive than those of the competition.

Highest digital printing reliability in the market: These printheads have recirculation which means that they are always jetting fresh/clean ink. Other manufacturers use printheads with no recirculation.

Lowest ink consumption in the market. Our systems never need purging or flushing of the printheads. (this means more uptime, and a lot less ink consumption)



To find out more about In2PS visit www.In2ps.com or send a message to info@in2ps.com.