



## *Printing equipment for the medical device industry*

- *Easy set-up*
- *Clean room environment*
- *Ultra-high quality printing*
- *Medical grade USP Class VI inks*
- *Inline print inspection and rejection*
- *Environment friendly printing system*
- *Fast, clean and efficient change-over*
- *FDA compliant (GAMP / CFR21 part11)*



***We add value to your product !***

## **General**

Printing International is specialised in the design and production of printing machines for the pharmaceutical and medical device market.

Since 1974 we are using our experience in order to deliver a finished product that complies with the strictest requirements of the sector. These printing machines are sold to the leading players in the medical device industry worldwide to print on syringes, bottles, catheters, inhalers, drug delivery systems, infusion and transfusion sets, injection devices, bags, pouches, filters, caps and closures, pumps, jars, ...

Another range of machines is made for the pharmaceutical sector to print on tablets, soft gel capsules, hard gel capsules, freeze-dried tablets, ...

## **Chiron Ringprint**

With the Chiron Ringprint it is possible to print onto your product integrating our latest technologies in the field of distribution, piece orientation, camera control and exit sorting.

This machine is a new, modern and modular installation, enabling you to find an adapted solution for all types of products and designs, showing an unequalled precision and decoration quality.

Both pneumatical and servo drive versions can be equipped with up to 6 modules of closed ink cups 90, 130 or 160mm and can integrate multiple decoration solutions.





## High performance and reliability

Our patented print technology offers the following advantages:

- high resolution
- continuous high quality print process thanks to constant ink viscosity level (no evaporation of the solvents thanks to the closed ink cups => also less waste of ink)
- correct print at the required position on the product
- printing with USP Class VI inks
- printing pads with FDA certificate
- medium and high print capacity
- all kinds of formats or sizes can be printed
- very short change-over time and very easy cleaning
- optional camera system with reject of eventual bad products at individual level
- cGMP / GAMP compliant (software compliant to 21 CFR part 11)
- internal validation process available
- ergonomic place-saving design

### **Chiron Agate**

This is a semi-automatic one colour printing machine that offers the same ultra high quality. This version can be used for small production. This model is also fully FDA compliant.





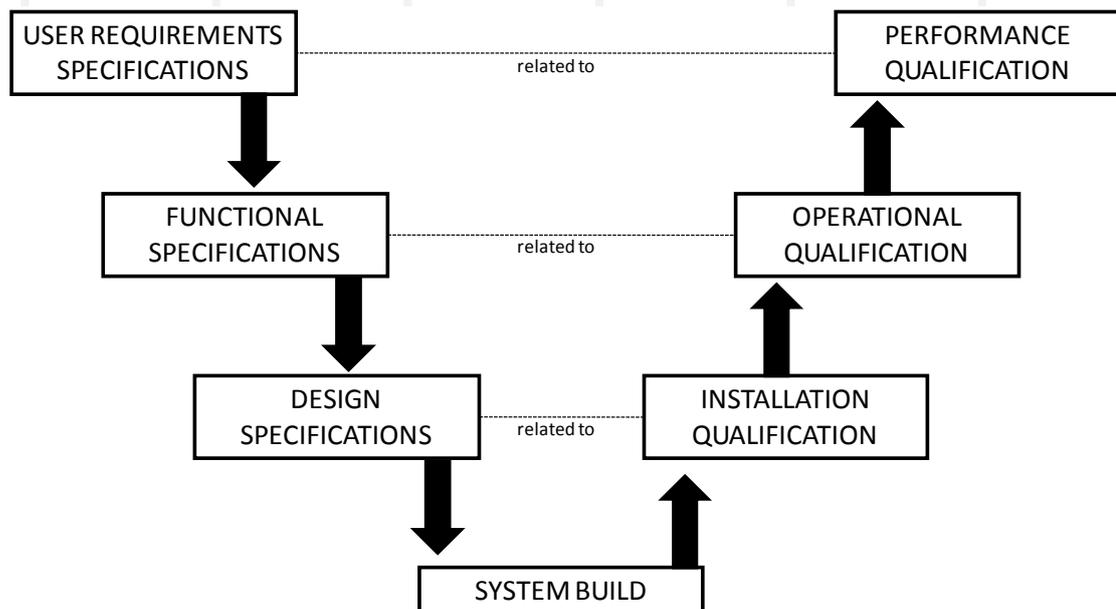
We add more than a print, we add value to your process

### Product Focus: Chiron Rotary Syringe Printing and Assembly

Rotary printing technology with semi-closed inking chamber for high-capacity printing on circumference of the barrel followed by assembly of the piston and the printed barrel. Integrated camera inspection of the printed image. Inspection of the assembly depth of the syringe (leakage test). This machine is designed for medium and high series.



### Validation Process



The cGMP quality is obtained via our internal validation process. Validation work at the design phase & the production phase is done by our specialists. As a result you obtain a detailed paperwork version of the performed steps that were followed in order to obtain a qualitative product that is responding to the needs of the pharmaceutical sector (see schedule above).



**Printing International<sup>®</sup>** N.V./S.A.

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