

SICPA: Enabling trust through constant innovation

Founded in 1927, headquartered in Switzerland and operating on five continents, [SICPA](#) is a leading global provider of secured authentication, identification and traceability solutions and services and a long-trusted advisor to governments, central banks, high security printers and industry. Carrying core expertise in high security inks, SICPA protects the majority of the world's banknotes and security documents from the threats of counterfeiting and fraud.

Thermal inkjet printing solutions

Bringing experience in both research and innovation in many diversified fields, SICPA's inkjet team is uniquely specialised in microfluidic design, inks formulation for InkJet technologies, material science and silicon processes, mechanical and electronic design and real-time embedded firmware. Thanks to extensive investments in R&D, a range of advanced Thermal Inkjet Technology-compatible inks, Thermal Inkjet print heads and print engines are offered for maximal digital printing performance.



Building on more than 30 years of extensive technological expertise in the Thermal Inkjet field of [Olivetti's](#) Inkjet division, SICPA stepped in 2014 and since then carried on the cutting-edge tradition by further developing end to end design capabilities for TIJ-based colour and monochrome printing systems. The TIJ printheads manufacturing facility is based in Italy where decades of quality printing systems design continue.

A glance through the years: From 1990 to present

- Over 70 million print heads and 60 million refills have been factory-produced in Arnad, a town located in the Aosta Valley region of northwestern Italy and have been delivered to world-renowned key players and service providers of the digital printing industry
- Several millions of Facsimiles, Desktop Printers and Multi Functional Printer (MFP) products have been produced for major Original Equipment Manufacturers (OEMs)
- Essential JV have been pursued for co-designing new technologies
- Several international patents have been granted
- TIJ-based products have been manufactured for various markets including consumer, gaming and lottery, bio-medical, food printing and more

Markets and references

SICPA's Thermal InkJet technologies are offered in private label through an OEM business model to Partners located in Europe, Asia, and north America in various markets, notably:

- Franking and addressing machines
- ID documents personalisation
- Packaging coding and marking
- Serialisation in the Pharma industry
- Desktop 3D printing

Products portfolio

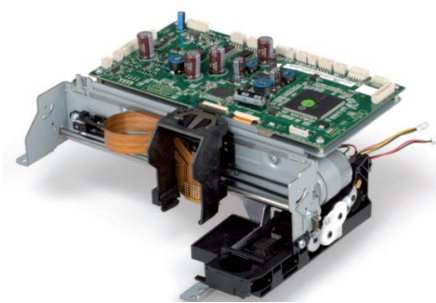
PRINT HEADS

Monochrome
Tri-chromic



PRINT ENGINES

Fixed head applications
Shuttling heads: 1 slot (up to 3 colors)
Shuttling heads: 2 slots (up to 6 colors)



INKS

Commercial ink: dye, pigmented, aqueous, solvent, UV curable
Secure ink (invisible, secure black)



From an array of specialised inks to highly performing print heads and print engines, SICPA today extends its technology portfolio to digital printing systems that are currently being used by key players in this sector. With our end to end design capabilities for TIJ based printing systems, you can:

- Gain unparalleled high printing quality
- Reach a grade A recognition by state-of-the-art vision systems

- Achieve quick set-up time for easy decommissioning and ink off load
- Attain highly efficient performance with low-cost systems
- Safeguard the OEM business of consumables thanks to the print heads embedded security features

SICPA's Thermal Inkjet field provides innovative technology in support of OEM Partners on the Industrial and Specialty Printing markets.

For more information, please contact:

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