

Ink / Fluid Delivery Systems

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The supply, monitoring and control of inks and fluids is a vital factor in maintaining digital print quality. Ink / fluid pressure, temperature and flow rates need to be kept stable to ensure a consistent quality print from startup to shutdown.

GIS offers all the necessary components - including electronics, software, header tanks and pressure control systems - for your ink / fluid delivery system.



Reduced Time to Market

With over 5 years of product development and proven customer solutions, GIS has the capability to rapidly configure systems to meet customer requirements in a wide range of applications.

GIS can offer design and development of tailored systems for your application, providing you with the flexibility to integrate complementary components into the final design.

By working with GIS, you can draw on this experience and reduce your time to market.

System Specification

Using an integrated user interface and central control logic, the modular components supplied by GIS can be used as building blocks to develop bespoke systems, enabling complete control for specific system requirements. All parts are scalable, allowing GIS to offer tailored solutions for industrial inkjet systems of any size, from R&D laboratory setups to full-system production. System optimisation is achieved through the following:

- Each ink control board controls up to 6 x inks / fluids independently, keeping system electronics to a minimum, easily scalable for additional inks / fluids
- Tanks are capable of supporting multiple printheads and can be configured for no flow, low flow, adjustable flow or high pressure printheads, thereby reducing component numbers within the print bar
- Ink / fluid temperature control management, without hot spots and thermostatically monitored to ensure ink viscosity is maintained, so that print quality is not affected

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Ink / Fluid Delivery System Features

- Flow Modes
 - No flow
 - Low flow
 - Controlled flow
 - High pressure flow
- Full fault detection
- Individual colour purge control
- Heater integration
- Standard and customised header tanks
- Single or multicolour configuration
- Up to 6 colour channels per control card
- Easy (no drain) printhead change
- Bespoke system design service
- Complete system or individual components
- Stainless steel or PET-P header tank options
- Real-time diagnostics, control and fault monitoring

Atlas® Pro (UI)

GIS ink / fluid delivery systems are fully compatible and integrated with Atlas® Pro to give an easy-to-use User Interface (UI). The UI provides the machine operator with complete control, configuration and real time monitoring of the ink / fluid delivery system, allowing for fluid and temperature level warnings to be set and monitored while outputting warning signals to both screen and beacons for system status or warnings.

