JETINX™
PRINTHEAD DRIVE&INK RECIRCULATION SYSTEM

POWERED BY
JetINX™

TUNE UP YOUR PRINTS!

SYSTEM FEATURES

- Precise control of ink temperature and flow rates
- Standby "Hold" feature for no loss of ink during startup and shutdown
- Autonomous operation allows operation without PC control
- Soft startup eliminates problems with ink foaming
- Each ink module can supports 1, 2 or 3 printheads
- Standard system is scalable up to 8 ink modules and 16 printheads
- Ink Control and Printing software runs on a standard Windows based PC

The JetINX™ Printhead Drive and Ink Recirculation System: Xaar 1002 allows integrators to quickly develop complete printing systems utilizing the Xaar 1002 printhead. It provides a cost effective and powerful option to integrators deploying industrial inkjet printing systems. The ink recirculation module provides precise control of fluid temperatures and flow rates, and can be fine-tuned for use with a wide range of inks, including those with high solids such as white ink. It implements new technology from INX

to form a module that packs powerful functionality into a small package. The development time and cost for a new printing machine based on the Xaar 1002 printhead can be significantly reduced with the use of this system. Each ink recirculation module can support either 1, 2 or 3 printheads. The compact ink recirculation modules can be positioned over the printheads along with the associated printhead control boards, allowing compact and simplified system integration.

BULK INK SUBSYSTEM

- 3 liter bulk ink container **(4)**
- Out and low level sensors
- Fill pump, check valve and bulk ink filter

INK →

← SENSOR →

INK RECIRCULATION SUBSYSTEM

- Supports one or two heads **(1)**
- Fill, start-up, and shutdown modes eliminate ink foaming and waste
- Low ink usage for start-up
- Large capacity heater for high ink usage applications
- High capacity ink filters
- All metal internal components and tubing for increased reliability
- Operation independent of host PC
- Vacuum maintained without power

all printhead and system module mounting hardware is optional.

INK SUPPLY

INK RETURN

XAAR 1002 PRINTHEAD

- 360 dpi native resolution **(2)**
- 70.5 mm print width
- Xaar patented Through-Flow Technology™

USB to CAN

DATA & POWER

XAAR 1002 PRINTHEAD DRIVE SUBSYSTEM

- Drives one Xaar 1002 printhead **(3)**
- USB loading of firmware, configuration and image data
- Includes image data buffer, encoder input, trigger input
- In-system loadable FPGA firmware and control programs

USB

POWER

POWER SUPPLY SUBSYSTEM

- Power for up to 8 Ink Recirculation modules per subsystem
- Power for USB hubs
- Power for up to 16 Xaar 1002 printhead drive subsystems and printheads per subsystem

AC →

INK SYSTEM CONTROL SOFTWARE

- Controls Ink Recirculation Subsystem
- Can handle any combination of colors
- User mode for normal operations
- Technician mode for system setup and configuration
- Graphic display of all system status
- Integration with PLC systems for error handling

PRINT CONTROL SOFTWARE

- Delivers image files to printheads for quality printing
- Configurable for any number of printheads and colors
- Encoder triggered head firing
- Variable data capability

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INX®