



Turnkey Printing Solutions and Integration Kits

The core competence of HSAUSA is developing and manufacturing of high resolution inkjet printers utilizing Xaar 1001 technology.

Our products are used for printing variable and fixed information onto a wide range of products within the Coding & Marking and Commercial Printing markets.

Our objective is to provide customers with standard equipment or specially adapted solutions for integration purposes, to meet specific requirements.

To complete systems and integrations, HSAUSA offers a range of industry related products including vision systems, transport units, motion slides, and supplies.

The equipment is robust, reliable, and developed for years of operation.



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Inline Digital Printing Solutions

Consulting
Integration
Support
Factory automation



Digital Printing Technology at work for you

- **Low Cost Printing.** Eliminate your multi-step, multiple consumables driven silk-screen or pad printing process. No longer mess with volatile inks and solvents associated with continuous ink jet. Drop-on-Demand ink jet is a clean, single step, single consumable process.
- **Quick Print Job Turnaround.** Print images can now be set-up within seconds. Download text, logo or graphic directly to your printer. No more delays waiting for costly silk-screens or plates.
- **Fast Printing Process.** Printing of true 360 x 360 DPI grayscale images can be accomplished at speeds of up to 16.6 linear inches (42.3 cm) per second, or up to 1150 square feet (107 square meters) per hour per head.

XAAR 1001 PRINT HEAD

- 1000 ACTIVE NOZZLES
- 70.5 MM PRINT SWATHE
- 360 DPI, 8 GRAYSCALE, 720+ APPARENT DPI
- SOLVENT, OIL, UV CURED, SPECIALTY FLUIDS
- 42 PL DROP VOLUME, 6 PL SUB DROPS
- 6 KHZ NOZZLE FIRING
- CMYK COLOR PRINTING
- THROUGH-FLOW INK TECHNOLOGY
- LONG PRINT HEAD LIFETIME
- OUTSTANDING PRINT PERFORMANCE



flexible solutions for Inline printing needs

SINGLE PASS PRINTING

Until now digital printing has not been able to achieve the speed, quality and reliability delivered by commercial printing techniques. However the new generation of variable drop piezoelectric inkjet print heads are capable of delivering both the quality and the speed at high performance levels and innovative printing systems based on these print heads are quickly coming to market.

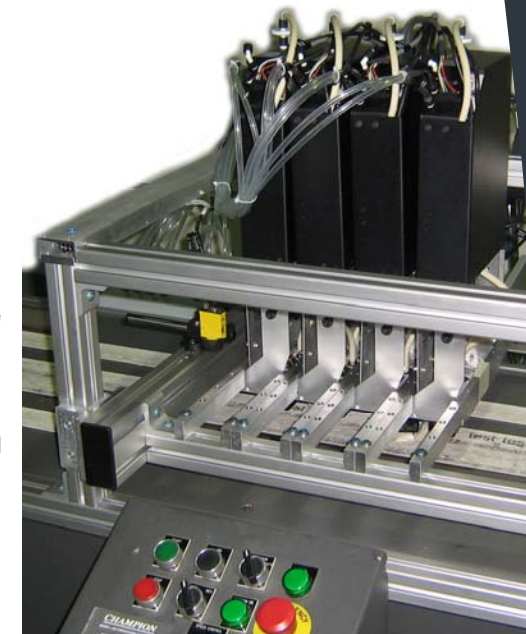
Single pass inkjet printing is now a commercial and 'industrial' reality by making the most of tightly controlled variable drop print head technology. Inkjet printing's flexibility is changing the world we live in and variable drop, high quality printing is a significant development that has moved inkjet printing into new markets, bringing with it new creative possibilities.

SOFTWARE SOLUTIONS

	RIPCenter	PosterShop	ProductionHouse
Primary Printer Support	Aqueous Inkjet Smaller Solvent Inkjet	Aqueous Inkjet Smaller Solvent Inkjet Lower-cost Flatbeds	Aqueous Inkjet Smaller Solvent Inkjet UV Flatbeds Optional Grand Format
RIP	RIP-Queue 1 Active Printer 1 Active RIP	RIP-Queue 2 Active Printers 1 Active RIP	RIP-Queue 4 Active Printers 2 Active RIPs
Workflow Modules	Preflight CUT-Server	Preflight CUT-Server Layout Tool Media Manager White Ink Tool	Preflight CUT-Server Layout Tool Media Manager Flatbed Cutting White Ink Tool Profile Generator Step-and-Repeater

HIGHLY DEPENDABLE, PIEZO DROP-ON-DEMAND INK JET PRINTING

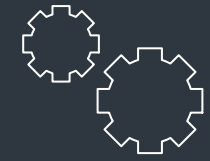
- **Value-Added Personalization.** Haven't been able to cost-effectively offer your customers individually printed products? Realize the benefits of digital by printing data driven entirely from your computer. Create a database and automate your process for hands-off personalized printing.
- **High Reliability** – Rigorously tested under laboratory and actual production conditions for overall system compatibility and maximum uptime.



AUTOMATION THAT CREATES A STRATEGIC ADVANTAGE.

MODULAR PRINT MODULES

- Integrated Print head and Ink Supply
- Xaar-1001 Print head
- Integrated INX Xaar 1001 Head Drive Board
- Integrated ink reservoir,
- Integrated ink supply electronic controls
- Precise control of ink temperature and flow rates
- Compatible with all materials jet-able by the Xaar-1001
- Control software runs on a standard Windows based PC
- Soft startup eliminates problems with ink foaming
- Standby "Hold" feature for no loss of ink during startup and shutdown
- Supports registration of multiple ink-jet arrays without time consuming tuning of individual array position (via the unique Xaar-1001 mounting system)
- Each module can provide ink flow for 1 or 2 print heads, more modules can be added for scalability



CUSTOM SOLUTIONS

HSAUSA is uniquely qualified to create custom inkjet printing systems. With over 20 years of manufacturing experience, HSAUSA has built a wide variety of industrial printing applications and can provide custom-designed products specifically matched to your specifications. Our modular designs are easily customized to fit into your existing production line and simple to maintain and repair.



SINGLE PASS PRINTING

Because of its use of leading edge print heads, custom systems from HSAUSA represent a unique value proposition. The print heads (such as the Xaar 1001) with their recirculating ink systems are much more reliable than older industrial print heads.



PRINTING SOLUTIONS

Find out how a HSAUSA custom print solution can help you save time and money.

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