



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 especially 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

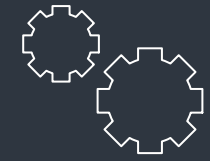
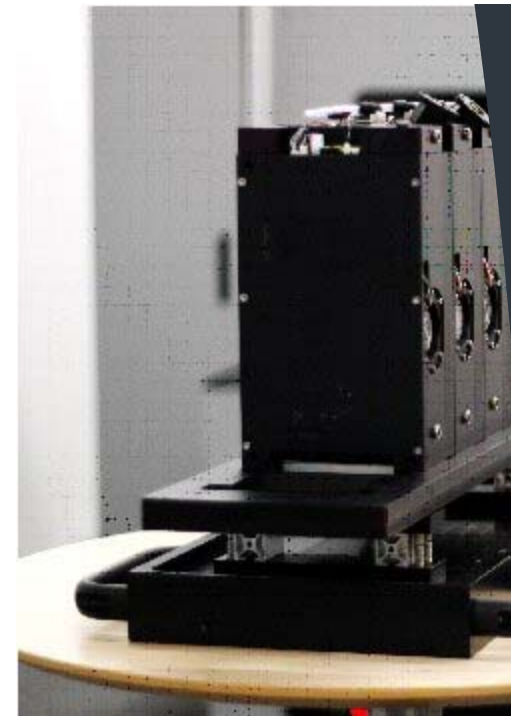
Consulting
Integration
Support
Factory automation



Digital Printing Technology at work for you

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

- **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 images can be accomplished at speeds of up to 16.6 linear inches (42.3 cm) per second, or up to 150 square feet per hour for scanning applications.
- **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.

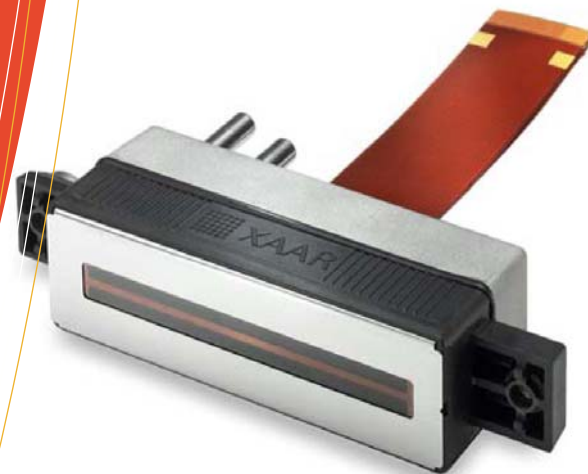


CUSTOM SOLUTIONS

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.

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

ixPressia supplies color processing software to convert RGB bitmaps into CMYK images used for driving the print arrays. (RIP for Raster Image Processor). ixPressia develops software products which focus on inkjet industry.



AUTOMATION THAT CREATES A STRATEGIC ADVANTAGE.



MODULAR PRINT MODULES

- Integrated Print head and Ink Supply
- Xaar-1001 Print head



- Integrated Xaar Head Personality Card (HPC) Drive Electronics
- Integrated 400mL ink reservoir, smaller reservoir available
- Integrated ink supply electronic controls
- Accurate temp control to 65C, supports high temp phase change inks
- Compatible with all materials jettable by the Xaar-1001
- 3 material choices, Delrin (plastic), Stainless Steel, Hard coated Aluminum (aluminum oxide)
- Continuous filtering of recirculating ink when system is powered up
- Integrated custom magnetically coupled pump with no moving seals (50000 hour pump MTBF)
- Supports registration of multiple ink

-jet arrays without time consuming tuning of individual array position (via the unique Xaar-1001 mounting system)



PRINTING SOLUTIONS

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

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