

# HSAJET® XAAR Printers

XAAR 128 / 500

HSAJET® piezo printers are based on  
XAAR Piezo inkjet technology

## HSAJET® XAAR Piezo Inkjet

XAAR Piezo Inkjet is the HSA range of industrial drop-on-demand print heads for outer case and product coding. Available in a wide range of print heights and configurations, HSA Systems provide one of the most flexible product coding solutions for this technology, able to meet the needs of end users.

Piezo Inkjet printers are used in numerous industrial applications. They eliminate the need for costly additional labelling, pre-printed stock and replace old, single-message roller coders.

Due to the modular construction, HSA Systems can provide Piezo Inkjet printing from 17.4 mm print height up to 70 mm from the same controller.

With a wide range of controllers to choose from, HSA Systems can provide a solution tailored to your production environment, from a simple terminal to fully database driven automation across the factory.

All printers can be installed either off-line or in-line. All controllers offer great flexibility due to individual controlling of each head.

## HSAJET® XAAR key-features:

- Lowest cost per print
- High uptime - ink change while printing
- Robust and reliable printers, with no maintenance
- Very simple setup and alignment
- Up to 70 mm print height without any print head alignment
- A variety of inks available, also for difficult, non-porous substrates
- Spot colours available. Porous media ink available in custom colour
- Non-contact coding. Ideal for rough surfaces like Tyvek, wood, pallets and cardboard



XAAR 128 ENGINE

## XAAR 128 printers

This versatile printhead is recognised as the defacto standard throughout the graphic arts and industrial sectors. Compatible with a wide range of oil-based, solvent and dye sublimation inks, the Xaar 128 is extensively utilised across the coding and marking and wide format graphics industries.

It's a consistent and highly flexible inkjet solution for producing high quality coding & marking.



XAAR 500 ENGINE

## XAAR 500 printers

Specifically designed to offer a competitive solution for producing coding & marking. The Xaar 500 is perfect for those needing a versatile binary inkjet solution. The 40pl model meets the demanding requirements of high-quality markets, while the 80pl version leads the way in coding & marking sectors.

# Technical Details

## XAAR PRINTERS XAAR 128 / 500

### XAAR 128 printers

- Prints side- or downwards
- Any HSAJET Xaar printer can be connected to all HSAJET Xaar 128 controller
- Available with a wide range of inks, from oil based in different colours to solvent based for difficult substrates.
- Ideal for 'sell by' and 'batch-numbering' applications, form print and small barcode printing
- Flexible and modular construction, connect 16 single 17.5 mm printers or combine printers in modules of up to 4 (70 mm print height).  
Maximum print height per controller / controller board is 280 mm
- 185 dpi up to 85 m/min with high speed head
- 40 or 80 pL drop size available
- 0.5 or 1.0 litre ink supply possible. No inverted ink supply with risk of ink spill

Controllers for XAAR printers	XAAR 128	XAAR 500	Data-base
CU - CONTROLLER UNIT	•	•	
TIPC - TOUCH CONTROLLER	•	•	•
CB - CONTROLLER BOARD	•	•	•
CT - CONTROLLER	•	•	•

### XAAR 500 printers

- All HSAJET Xaar 500 printers can be connected to any HSAJET Xaar 500 controller.
- Available with a wide range of inks, from oil based in different colours to solvent based for difficult substrates.
- Ideal for coding and marking solutions, form print, large contrast-rich barcodes and bitmaps.
- Flexible and modular construction, connect up to 4 x 70 mm printers for a maximum print height of 280 mm
- 180 dpi up to 34 m/min
- 0.5 or 1.0 litre ink supply possible. No inverted ink supply with risk of ink spill

### Technical Data:

Housings: Stainless steel

Environmental conditions  
 Operating temp.: 10 - 50° C  
 Humidity: 10 - 90%  
 non-condensing

CE compliant

XAAR Engines	XAAR 128/80	XAAR 128/80 High Speed	XAAR 128/40-8.3	XAAR 128/80-W	XAAR 500/80
Available print heights XAAR Printers	17.5 / 35.0 / 52.5 / 70.0 mm				70.0 mm
NOZZLE PLATE	non-wetting	non-wetting	non-wetting	wetting (plus)	
ACTIVE NOZZLES	128	128	128	128	500
DROP VOLUME* (PL)	80	80	40	80	80
DROP VELOCITY (M/S)	5.0	5.0	6.0	5.0	6.0
MAX. FREQUENCY (KHZ)	4.25	4.25	8.3	5.5	4.0
MAX. LINEAR SPEED (MM/S)	540	540	590	705	564



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