

# Xaar 128



## Adaptable printhead with trouble-free integration

The Xaar 128 has maintained its position as the leading 17 mm piezoelectric drop-on-demand printhead of choice for the **Coding & Marking (CM)** and **Wide-Format Graphics (WFG)** print sectors. Its 20 year proven track record of reliability, ease of integration, throughput, speed and quality of print have made this printhead continuously sought after for new printers.

The Xaar 128 is compatible with many ink types, suitable for outdoor or indoor graphics, barcodes, outer case carton coders or poster printing. The compact and versatile Xaar 128 is used extensively for a diverse range of applications, primarily in the CM and WFG markets because of its high print quality, resolution and range of variants.

Optimised manufacturing enables Xaar to provide the Xaar 128 with a programmable circuit which offers advanced control and tuning of the printhead as well as better control of ink characteristics and print quality.

Xaar is a world-leader in the development and manufacture of industrial inkjet technologies with more than 25 years' experience. The company is headquartered in the UK and has offices in USA, China and India. Today, Xaar's state-of-the-art manufacturing facilities in the UK are among the most innovative in the world.



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## Light and powerful

- With a compact footprint, light carriage and weight of only 16 grams, the agile Xaar 128 printhead is ideal for applications where weight and size are a key factor to design
- Offering 40-80 pL drop sizes and a firing frequency of up to 8.3 kHz, this printhead provides a solid, reliable workhorse solution for the Coding and Marking and Wide-Format Graphics markets
- Designed to deliver industrial reliability and robustness resulting in increased production up-time even in harsh environments
- A programmable circuit offers advanced control and tuning as well as better control of different ink characteristics and print quality.

## Ease of integration

- Specifically engineered with a simple electronic interface, the Xaar 128 promotes quick and easy integration into printers making it the ideal choice for those wanting to enter into a variety of markets
- Industry standard ink fittings and simple ink priming enable an easy, clean and secure connection to ink systems
- The printhead is compatible with an extensive range of oil-based and solvent inks, again offering a high degree of choice to the user
- The Xaar 128 printhead provides a fast and cost-effective route to market for both suppliers of digital inkjet technology and those wishing to move into inkjet technology to diversify their product offering.

Physical attributes	Xaar 128/80L	Xaar 128/40L	Xaar 128/80W	Xaar 128/40W
Colour of insulator	Blue	Dark Grey	Purple	Light Grey
Active nozzles	128	128	128	128
Print swathe width (at angle)	16.5 (71.6°) mm	9.0 (31.0°) mm	16.5 (71.6°) mm	9.0 (31.0°) mm
Nozzle plate	Non-wetting	Non-wetting	Wetting	Wetting
Nozzle pitch	137.1 µm	137.1 µm	137.1 µm	137.1 µm
Nozzle density (nozzles per inch)	185 npi	185 npi	185 npi	185 npi
Printhead weight (dry)	15.5 g	15.5 g	15.5 g	15.5 g
Ink types	Oil, Solvent	Oil, Solvent	Oil, Solvent	Oil, Solvent
Drop volume*	80 pL	40 pL	80 pL	40 pL
Drop velocity*	5 m/s	7 m/s	5 m/s	6 m/s
Pixel resolution (single pass)	200 x 200 dpi	360 x 360 dpi	200 x 200 dpi	360 x 360 dpi
Typical firing frequency @ Max DPD*	4.25 kHz	8.3 kHz	5.5 kHz	8.3 kHz
Dimensions (WxDxH)	37.2 x 11.3 x 40.8 mm	37.2 x 11.3 x 40.8 mm	37.2 x 11.3 x 40.8 mm	37.2 x 11.3 x 40.8 mm

\* Dependant on ink used and system integration



## Approved inks

Xaar actively partners with a wide range of ink manufacturers to develop high-quality ink solutions for its printheads. The Xaar 128 is designed to be compatible with a range of oil and solvent inks.