



### **Xaar Technology**

*Xaar is a world leader in the development and manufacture of piezoelectric drop-on-demand inkjet technologies. Its patented shear mode, shared wall technology incorporates low power modulation and unique acoustic waveforms to deliver exceptionally low levels of internal mechanical stress, resulting in an unsurpassed consistency of quality, reliability and printhead life.*



### **Applications**

*The Xaar 126 is ideal for the production of an extensive array of wide-format graphics, UV-specialist graphics and coding and marking applications. Truly versatile, the printhead meets diverse customer requirements and offers a robust and quality-driven printhead for outdoor signs and outer-case printing with the 80pL version, while the 50pL unit addresses the requirements of high quality indoor signs, banner printing and POS collateral.*



### **Inks and Fluids**

*Xaar partners with market-leading ink manufacturers to develop high-quality ink solutions for its printheads. The Xaar 126 is compatible with UV, solvent and oil-based inks, offering a multi-substrate, multi-market print production tool to open up a realm of new possibilities for OEMs and print houses.*

## **A solid performer**

**It's when a reliable, flexible and cost-effective wide-format inkjet solution is called for that the Xaar 126 comes into its own.**

**The Xaar 126 is optimised to print a wide variety of inks onto a broad range of substrates, opening up new and exciting possibilities for the application of inkjet by enabling OEMs and print houses to run a full material portfolio.**

**The Xaar 126 is exceptional value, delivering versatility and consistency to open up a realm of possibilities for the application of inkjet technology. And with its unique internal surge control mechanism, the Xaar 126 is effective in maintaining drop size uniformity and drop placement accuracy to ensure maximum print quality every time.**





### Big performance

The Xaar 126 has an internal surge control mechanism to ensure consistent drop size, which results in excellent image quality. With programmable electronics, the Xaar 126 also offers advanced control logic functions to enable better tuning and control of different ink characteristics to streamline the printing process, resulting in optimised ink performance and print quality.

The Xaar 126 printhead also features a more robust nozzle plate to ensure

maximum resilience in the on-demand print production environment.

### Light weight

The Xaar 126 brings real commercial benefits to the developer. Built with an extremely light aluminium chassis, the Xaar 126 offers cost and speed advantages in print engine design, as the machines are driving a significantly lighter printhead carriage.

### Integration and maintenance

Easy to set up and use, the Xaar 126 has a solid chassis with unique mounting brackets and built-in alignment features, making it simple to mechanically mount and integrate. To further reduce set up time, and maximise operational efficiencies, the Xaar 126 contains inlet and outlet ports which simplify filling and flushing.

Physical Attributes	Xaar 126/80	Xaar 126/50	Unit
Active nozzles	126	126	-
Print swathe width	17.2	17.2	mm
Nozzle pitch	137.3	137.3	$\mu\text{m}$
Nozzle density (nozzles per inch)	185	185	npi
Drop velocity*	6	6	m/s
Printhead weight (dry)	22	22	g
Dimensions (WxDxH)	45x43x11.8	45x43x11.8	mm
Ink type	Oil, UV, Solvent	Oil, UV, Solvent	-
Drop placement accuracy*	<18	<18	mrad
Binary			
Drop volume*	80	50	pl
Typical firing frequency*	5.2	7.5	kHz

\* Dependent on ink used and system integration.

Xaar plc  
Science Park  
Cambridge  
CB4 0XR  
England

Tel: +44 (0) 1223 423663  
Email: [info@xaar.co.uk](mailto:info@xaar.co.uk)  
Web: [www.xaar.co.uk](http://www.xaar.co.uk)