

## Xaar 500



### 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 500 has been specifically designed to offer a competitive, high quality and fast output printhead to enable the scanning wide-format graphics and flatbed graphics markets to produce vibrant indoor/outdoor signs and POS material. While the wide print swathe, ink compatibility and reliability makes it the printhead of choice for Coding & Marking applications.

### INKS AND FLUIDS

Xaar partners with market-leading ink manufacturers to develop high quality ink solutions for its printheads. The Xaar 500 is compatible with a leading range of oil-based, UV and solvent inks.

## WHEN HIGH INDUSTRIAL PERFORMANCE COUNTS

The Xaar 500 is the optimum digital inkjet solution for use in manufacturing environments where reliability and robust performance matter. Utilising Xaar's state-of-the-art control electronics offering simple and fast integration, the 70mm, 500 nozzle print swathe delivers premium quality images with enhanced colour, subtle highlights and sharp detail.

The Xaar 500 is perfect for those needing a versatile wide and grand-format or coding and marking (C&M sectors) binary inkjet solution. The 40pl model meets the demanding requirements of the high quality UV wide-format and solvent graphics markets, while the 80pl version leads the way in the solvent grand-format and C&M sectors.



**XAAR**<sup>®</sup>

### ADVANCED PRINthead

Maximising the production benefits inherent in Xaar's patented drop-on-demand technology, the Xaar 500 enables high performance, quality images and print production to become a fast, reliable and efficient reality.

### BEST PERFORMANCE IN CLASS

With linear speeds of up to 560 mm/s when printing at 360 dpi print resolution configurations, or 1000 mm/s printing at 180 dpi print resolution configurations the Xaar 500 binary printhead offers a technical flexibility and print quality that truly outshines its competitors.

The Xaar 500 features specialised control logic and electronics to provide flexible control and fine tuning for inks. To further enhance this capability, the ink feed system enables one to four colours to be fired per printhead, with no discontinuity between colours. For ease of integration into a variety of practical applications, the Xaar 500 printhead is mounted on a precision chassis with datum features on three planes for easy positioning in most orientations.

Physical Attributes	Xaar 500/80	Xaar 500/80-CM	Xaar 500/40	Xaar 500/40-S	Unit
Active nozzles	500	500	500	500	—
Print swathe width	70.5	70.5	70.5	70.5	mm
Nozzle pitch	141	141	141	141	$\mu\text{m}$
Nozzle density (nozzles per inch)	180	180	180	180	npi
Drop velocity *	6	6	6	6	m/s
Printhead weight (dry)	290	290	290	290	g
Dimensions (WxDxH)	95 x 41 x 110	95 x 41 x 110	95 x 41 x 110	95 x 41 x 110	mm
Ink type	Approved range **	Oil only	Approved range **	Solvent only	—
Binary					
Drop volume *	80	80	40	40	pl
Typical firing frequency *	4	7.2	8	8	kHz

\* Dependent on ink used and system integration.

\*\* A wide range of approved fluids are available.



**XAAR PLC**  
**SCIENCE PARK**  
**CAMBRIDGE**  
**CB4 0XR**  
**UNITED KINGDOM**  
**TEL: +44 (0)1223 423663**  
**FAX: +44 (0)1223 423590**  
**WWW.XAAR.COM**

