

Xaar Printhead Matrix

Physical Attributes	Unit	Xaar 128	Xaar 501	Xaar 502	Xaar 1003	Xaar 1003 AMP	Xaar 2001 GS12C	Xaar 2001+
Active nozzles	—	128	500	500	1000	1000	2000	2000
Print swathe width	mm	17.4	70.5	70.5	70.5	70.5	70.5	70.5
Number of fluid paths	—	1	1	1	1	1	1	1 or 2
Nozzle density (nozzles per inch)	npi	185	180	180	360	360	720	Single colour: 720 Dual colour: 360
Typical firing frequency ¹	kHz	8, 6, 4	10 - 27	7 - 9.5	6, 12	6, 12	6, 12	6, 12
Drop velocity ¹	m/s	5, 6	6, 7	5, 7	5, 6	7	5, 6	5, 6
Printhead weight (dry)	g	16	208 ²	208 ²	144	144	445	455
Dimensions: width depth height	mm	38 12 41	104 17 113 ²	104 17 113 ²	125 30 60	125 30 60	132 50 105	132 50 105
Fluid types ¹	—	Solvent Oil	UV Oil	Solvent Oil	Solvent UV Oil	Specialist fluids	Oil	Oil
Sub-drop volume ¹	pL	40, 80	8 - 40	15 - 75 ¹	6, 12, 40	1 - 3	12	6, 12, 40
Firing mode	—	Binary	Greyscale	Greyscale	Greyscale	Greyscale	Greyscale	Greyscale
Max grey levels	—	2	6	6 ¹	5 ³ , 8	8	8	5 ⁴ , 8

¹ Dependent upon printhead model & ink type

² Includes filter module

³ Xaar 1003 GS40 only

⁴ Xaar 2001+ GS40 only

