

Xaar Printhead Matrix



Physical Attributes	Unit	Xaar 501	Xaar 502	Xaar 2002	Xaar Nitrox	Xaar Irix	Xaar Aquinox	Xaar Nitrox eX	Xaar eX
Active nozzles	—	500	500	2000	1000	128	2000	1000	2000
Print swathe width	mm	70.41	70.41	70.52	70.49	17	70.52	70.49	70.52
Number of fluid paths	—	1	1	up to 2	1	1	up to 2	1	up to 2
Nozzle density (nozzles per inch)	npi	180	180	1 colour: 720 2 colours: 360	360	185	1 colour: 720 2 colours: 360	360	720
Maximum firing frequency (up to) ¹	kHz	27	9.5	36	48	8.3	48	48	36
Drop velocity ¹	m/s	7	7	6	6	6	6	6	6
Printhead weight (dry)	g	208 ²	208 ²	445	144	15.5	625	144	445
Dimensions: W x D x H	mm	104 x 17 x 113 ²	104 x 17 x 113 ²	132 x 50 x 105	125 x 30 x 60	38 x 12 x 41	132 x 50 x 135	125 x 30 x 60	132 x 50 x 105
Fluid types ¹	—	UV Oil	Solvent Oil	Solvent UV Oil	Solvent UV Oil	Solvent Oil	Aqueous	UV coating	UV coating
Drop volume ¹	pL	8	15	6, 12, 40	3, 6, 12, 40	40, 80	6, 12	12,40	12,40
Firing mode	—	Greyscale	Greyscale	Greyscale	Greyscale	Binary	Greyscale	Greyscale	Greyscale
Max grey levels (up to)	—	6	6	8	8	2	8	8	8
TF Technology	—	✓ & X	✓ & X	✓	✓	X	✓	✓	✓
High Laydown Technology	—	✓	✓	✓	✓	X	✓	✓	✓
Viscosity range ³	cP	6 - 100	7 - 100	6 - 100	6 - 100	6 - 20	6 - 100	6 - 100	6 - 100

¹ Dependent upon printhead model & ink type

² Includes filter module

³ Dependent on a combination of ink properties