

Xaar Printhead Matrix



Physical Attributes	Unit	Xaar Irix	Xaar 501	Xaar 502	Xaar Nitrox	Xaar 2002	Xaar Aquinox	Xaar Nitrox eX	Xaar eX
Active nozzles	—	128	500	500	1000	2000	2000	1000	2000
Print swathe width	mm	17	70.41	70.41	70.49	70.52	70.52	70.49	70.52
Number of fluid paths	—	1	1	1	1	up to 2	up to 2	1	up to 2
Nozzle density (nozzles per inch)	npi	185	180	180	360	1 colour: 720 2 colours: 360	1 colour: 720 2 colours: 360	360	720
Maximum firing frequency (up to) ¹	kHz	8.3	27	9.5	48	36	48	48	36
Drop velocity ¹	m/s	6	7	7	6	6	6	6	6
Printhead weight (dry)	g	15.5	208 ²	208 ²	144	445	625	144	445
Dimensions: W x D x H	mm	38 x 12 x 41	104 x 17 x 113 ²	104 x 17 x 113 ²	125 x 30 x 60	132 x 50 x 105	132 x 50 x 135	125 x 30 x 60	132 x 50 x 105
Fluid types ¹	—	Solvent Oil	UV Oil	Solvent Oil	Solvent UV Oil	Solvent UV Oil	Aqueous	UV coating	UV coating
Drop volume ¹	pL	40, 80	8	15	3, 6, 12, 40	6, 12, 40	6, 12	12,40	12,40
Firing mode	—	Binary	Greyscale	Greyscale	Greyscale	Greyscale	Greyscale	Greyscale	Greyscale
Max grey levels (up to)	—	2	6	6	8	8	8	8	8
TF Technology	—	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High Laydown Technology	—	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ultra High Viscosity ³	—	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes

¹ Dependent upon printhead model & ink type

² Includes filter module

³ Dependent on a combination of ink properties