

# Xaar Printhead Matrix

Physical Attributes	Unit	Xaar 126/35	Xaar 126/50	Xaar 126/80	Xaar 128/40	Xaar 128/40-W	Xaar 128/80	Xaar 128/80-W	Xaar Electron
Active nozzles	—	126	126	126	128	128	128	128	128
Print swathe width	mm	17.2	17.2	17.2	17.4	17.4	17.4	17.4	17.4
Nozzle pitch	μm	137.3	137.3	137.3	137.3	137.3	137.3	137.3	137.3
Nozzle density (nozzles per inch)	npi	185	185	185	185	185	185	185	185
Typical firing frequency *	kHz	9	7.5	5.2	8.3	8.3	4.25	5.5	7.0
Drop velocity *	m/s	6	6	6	6	6	5	5	5
Printhead weight (dry)	g	22	22	22	15.5	15.5	15.5	15.5	15.5
Dimensions: Width Depth Height	mm	45 13 43	45 13 43	45 13 43	38 12 41	38 12 41	38 12 41	38 12 41	38 12 41
Fluid types	—	Solvent UV Oil-based	Solvent UV Oil-based	Solvent UV Oil-based	Solvent Oil-based	Solvent Oil-based	Solvent Oil-based	Solvent Oil-based	Solvent UV Oil-based
Typical drop volume *	pl	35	50	80	40	40	80	80	70
Firing Mode / Grey levels	—	Binary	Binary	Binary	Binary	Binary	Binary	Binary	Binary

\* Dependent upon ink type and system integration



# Xaar Printhead Matrix

Physical Attributes	Unit	Xaar 318/CA4	Xaar Proton/35	Xaar Proton/60	Xaar 500/40	Xaar 500/40-S	Xaar 500/80	Xaar 500/80-CM	Xaar 1001
Active nozzles	—	318	382	382	500	500	500	500	1000
Print swathe width	mm	53.6	53.7	53.7	70.5	70.5	70.5	70.5	70.5
Nozzle pitch	μm	169	141	141	141	141	141	141	70.5
Nozzle density (nozzles per inch)	npi	150	180	180	180	180	180	180	360
Typical firing frequency *	kHz	6.2	9.5	7	8	8	4	7.2	6
Drop velocity *	m/s	9-11*	5	5	6	6	6	6	6
Printhead weight (dry)	g	136	120	120	290	290	290	290	122
Dimensions: Width Depth Height	mm	86 23 75	86 21 75	86 21 75	95 41 110	95 41 110	95 41 110	95 41 110	125 31 61
Fluid types	—	Solvent UV Oil-based	Solvent UV Oil-based	Solvent UV Oil-based	Solvent UV Oil-based	Solvent UV Oil-based	Solvent UV Oil-based	Solvent UV Oil-based	Solvent UV Oil-based
Typical drop volume * Sub-drop Volume	pl	6 6	35	60	40	40	80	80	42 6
Firing Mode / Grey levels	—	Greyscale/ Std 8, Max 16	Binary	Binary	Binary	Binary	Binary	Binary	Greyscale 8

\* Dependent upon ink type and system integration

