



Pneumatic Inking Systems Dot Size Guidelines in MILS (0.001 inch)

Dot production figures are averages and as such, are not guaranteed. All ink dot characterization testing performed at ambient temperature of 70° degrees F, relative humidity of 50% using polished, unetched silicon wafers (no passivation).

		X1000 & X901 Series		X5000 Series		Motorized-Z			
		DM-2		DM-2.3		S = Small Dot Mode	L = Large Dot Mode		
						DM-2			
						S	L		
I N K T Y P E	8103	A5	Min.	12 mil	Min.	13 mil	Min.	*	10 mil
			Mid.	21 mil	Mid.	23 mil	Mid.	*	19 mil
			Max.	24 mil	Max.	27 mil	Max.	*	22 mil
		A6	Min.	15 mil	Min.	17 mil	Min.	*	11 mil
			Mid.	25 mil	Mid.	27 mil	Mid.	*	23 mil
			Max.	29 mil	Max.	30 mil	Max.	*	28 mil
		A8	Min.	22 mil	Min.	23 mil	Min.	*	17 mil
			Mid.	37 mil	Mid.	39 mil	Mid.	*	32 mil
			Max.	42 mil	Max.	43 mil	Max.	*	38 mil
							S	L	
	6990 6993 6997	A5	Min.	16 mil	Min.	17 mil	Min.	9 mil	12 mil
			Mid.	28 mil	Mid.	29 mil	Mid.	12 mil	23 mil
			Max.	32 mil	Max.	33 mil	Max.	16 mil	28 mil
		A6	Min.	20 mil	Min.	18 mil	Min.	8 mil	14 mil
			Mid.	32 mil	Mid.	32 mil	Mid.	16 mil	28 mil
Max.			36 mil	Max.	36 mil	Max.	19 mil	34 mil	
A8		Min.	29 mil	Min.	27 mil	Min.	12 mil	21 mil	
		Mid.	52 mil	Mid.	50 mil	Mid.	24 mil	41 mil	
		Max.	60 mil	Max.	57 mil	Max.	29 mil	50 mil	
						S	L		
7824	A5	Min.	19 mil	Min.	18 mil	Min.	10 mil	15 mil	
		Mid.	33 mil	Mid.	33 mil	Mid.	18 mil	29 mil	
		Max.	38 mil	Max.	38 mil	Max.	21 mil	34 mil	
	A6	Min.	25 mil	Min.	20 mil	Min.	13 mil	22 mil	
		Mid.	44 mil	Mid.	36 mil	Mid.	24 mil	41 mil	
		Max.	50 mil	Max.	41 mil	Max.	29 mil	46 mil	
	A8	Min.	37 mil	Min.	29 mil	Min.	20 mil	31 mil	
		Mid.	59 mil	Mid.	50 mil	Mid.	34 mil	55 mil	
		Max.	69 mil	Max.	56 mil	Max.	40 mil	63 mil	
						S	L		
8104	A5	Min.	26 mil	Min.	24 mil	Min.	14 mil	23 mil	
		Mid.	49 mil	Mid.	44 mil	Mid.	25 mil	47 mil	
		Max.	54 mil	Max.	50 mil	Max.	30 mil	53 mil	
	A6	Min.	33 mil	Min.	27 mil	Min.	20 mil	30 mil	
		Mid.	56 mil	Mid.	50 mil	Mid.	34 mil	56 mil	
		Max.	65 mil	Max.	56 mil	Max.	39 mil	63 mil	
	A8	Min.	51 mil	Min.	54 mil	Min.	38 mil	54 mil	
		Mid.	80 mil	Mid.	85 mil	Mid.	59 mil	85 mil	
		Max.	90 mil	Max.	93 mil	Max.	67 mil	89 mil	

* Contact [Xandex Customer Service](#) for information on using 8103 ink in small dot applications.





Pneumatic Inking Systems Dot Size Guidelines in Microns (µm)

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		X1000 & X901 Series		X5000 Series		Motorized-Z			
		DM-2		DM-2.3		S = Small Dot Mode L = Large Dot Mode DM-2			
						S	L		
I N K T Y P E	8103	A5	Min.	304.8 µm	Min.	330.2 µm	Min.	*	254 µm
			Mid.	533.4 µm	Mid.	584.2 µm	Mid.	*	482.6 µm
			Max.	609.6 µm	Max.	685.8 µm	Max.	*	558.8 µm
		A6	Min.	381 µm	Min.	431.8 µm	Min.	*	279.4 µm
			Mid.	635 µm	Mid.	685.8 µm	Mid.	*	584.2 µm
			Max.	736.6 µm	Max.	762 µm	Max.	*	711.2 µm
		A8	Min.	558.8 µm	Min.	584.2 µm	Min.	*	431.8 µm
			Mid.	939.8 µm	Mid.	990.6 µm	Mid.	*	812.8 µm
			Max.	1066.8 µm	Max.	1092.2 µm	Max.	*	965.2 µm
							S	L	
	6990 6993 6997	A5	Min.	406.4 µm	Min.	431.8 µm	Min.	228.6 µm	304.8 µm
			Mid.	711.2 µm	Mid.	736.6 µm	Mid.	304.8 µm	584.2 µm
			Max.	812.8 µm	Max.	838.2 µm	Max.	406.4 µm	711.2 µm
		A6	Min.	508 µm	Min.	457.2 µm	Min.	203.2 µm	355.6 µm
			Mid.	812.8 µm	Mid.	812.8 µm	Mid.	406.4 µm	711.2 µm
			Max.	914.4 µm	Max.	914.4 µm	Max.	482.6 µm	863.6 µm
		A8	Min.	736.6 µm	Min.	685.8 µm	Min.	304.8 µm	533.4 µm
			Mid.	1320.8 µm	Mid.	1270 µm	Mid.	609.6 µm	1041.4 µm
			Max.	1524 µm	Max.	1447.8 µm	Max.	736.6 µm	1270 µm
							S	L	
	7824	A5	Min.	482.6 µm	Min.	457.2 µm	Min.	254 µm	381 µm
			Mid.	838.2 µm	Mid.	838.2 µm	Mid.	457.2 µm	736.6 µm
			Max.	965.2 µm	Max.	965.2 µm	Max.	533.4 µm	863.6 µm
		A6	Min.	635 µm	Min.	508 µm	Min.	330.2 µm	558.8 µm
Mid.			1117.6 µm	Mid.	914. µm	Mid.	609.6 µm	1041.4 µm	
Max.			1270 µm	Max.	1041. µm	Max.	736.6 µm	1168.4 µm	
A8		Min.	939.8 µm	Min.	736.6 µm	Min.	508 µm	787.4 µm	
		Mid.	1498.6 µm	Mid.	1270 µm	Mid.	863.6 µm	1397 µm	
		Max.	1752.6 µm	Max.	1422.4 µm	Max.	1016 µm	1600.2 µm	
						S	L		
8104	A5	Min.	660.4 µm	Min.	609.6 µm	Min.	355.6 µm	584.2 µm	
		Mid.	1244.6 µm	Mid.	1117.6µm	Mid.	635 µm	1193.8 µm	
		Max.	1371.6 µm	Max.	1270 µm	Max.	762 µm	1346.2 µm	
	A6	Min.	838.2 µm	Min.	685.8 µm	Min.	508 µm	762 µm	
		Mid.	1422.4 µm	Mid.	1270 µm	Mid.	863.6 µm	1422.4 µm	
		Max.	1651 µm	Max.	1422.4 µm	Max.	990.6 µm	1600.2 µm	
	A8	Min.	1295.4 µm	Min.	1371.6 µm	Min.	965.2µm	1371.6 µm	
		Mid.	2032 µm	Mid.	2159 µm	Mid.	1498.6 µm	2159 µm	
		Max.	2286 µm	Max.	2362.2 µm	Max.	1701.8 µm	2260.6 µm	

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