

## DieMark® Pneumatic Inker Dot Size Guidelines in Mils

Dot Size Guidelines in Mils (0.001 inch)	Micro-Z X711X Manual & X712X Micro-Z Motorized Series		X1000 & X901 Series DM-2		X5000 Series DM-2.3		Motorized-Z S = Small Dot L = Large Dot DM-2	
							S	L
<b>8103 INK</b>								
A4	Min.	3.5 mil	Min.	0	Min.	0	Min.	0
	Mid.	6.75 mil	Mid.	0	Mid.	0	Mid.	0
	Max.	10 mil	Max.	0	Max.	0	Max.	0
A5	Min.	10 mil	Min.	12 mil	Min.	13 mil	Min.	* 10 mil
	Mid.	19 mil	Mid.	21 mil	Mid.	23 mil	Mid.	* 19 mil
	Max.	22 mil	Max.	24 mil	Max.	27 mil	Max.	* 22 mil
A6	Min.	11 mil	Min.	15 mil	Min.	17 mil	Min.	* 11 mil
	Mid.	23 mil	Mid.	25 mil	Mid.	27 mil	Mid.	* 23 mil
	Max.	28 mil	Max.	29 mil	Max.	30 mil	Max.	* 28 mil
A8	Min.	17 mil	Min.	22 mil	Min.	23 mil	Min.	* 17 mil
	Mid.	32 mil	Mid.	37 mil	Mid.	39 mil	Mid.	* 32 mil
	Max.	38 mil	Max.	42 mil	Max.	43 mil	Max.	* 38 mil
<b>6990 / 6993 / 6997 INK</b>							S	L
A4	Min.	4 mil	Min.	0	Min.	0	Min.	0
	Mid.	7 mil	Mid.	0	Mid.	0	Mid.	0
	Max.	10 mil	Max.	0	Max.	0	Max.	0
A5	Min.	9 mil	Min.	16 mil	Min.	17 mil	Min.	9 mil 12 mil
	Mid.	12 mil	Mid.	28 mil	Mid.	29 mil	Mid.	12 mil 23 mil
	Max.	16 mil	Max.	32 mil	Max.	33 mil	Max.	16 mil 28 mil
A6	Min.	8 mil	Min.	20 mil	Min.	18 mil	Min.	8 mil 14 mil
	Mid.	16 mil	Mid.	32 mil	Mid.	32 mil	Mid.	16 mil 28 mil
	Max.	19 mil	Max.	36 mil	Max.	36 mil	Max.	19 mil 34 mil
A8	Min.	12 mil	Min.	29 mil	Min.	27 mil	Min.	12 mil 21 mil
	Mid.	24 mil	Mid.	52 mil	Mid.	50 mil	Mid.	24 mil 41 mil
	Max.	29 mil	Max.	60 mil	Max.	57 mil	Max.	29 mil 50 mil
<b>7824 INK</b>							S	L
A4	Min.	6 mil	Min.	0	Min.	0	Min.	0
	Mid.	8.5 mil	Mid.	0	Mid.	0	Mid.	0
	Max.	11 mil	Max.	0	Max.	0	Max.	0
A5	Min.	10 mil	Min.	19 mil	Min.	18 mil	Min.	10 mil 15 mil
	Mid.	18 mil	Mid.	33 mil	Mid.	33 mil	Mid.	18 mil 29 mil
	Max.	21 mil	Max.	38 mil	Max.	38 mil	Max.	21 mil 34 mil
A6	Min.	13 mil	Min.	25 mil	Min.	20 mil	Min.	13 mil 22 mil
	Mid.	24 mil	Mid.	44 mil	Mid.	36 mil	Mid.	24 mil 41 mil
	Max.	29 mil	Max.	50 mil	Max.	41 mil	Max.	29 mil 46 mil
A8	Min.	20 mil	Min.	37 mil	Min.	29 mil	Min.	20 mil 31 mil
	Mid.	34 mil	Mid.	59 mil	Mid.	50 mil	Mid.	34 mil 55 mil
	Max.	40 mil	Max.	69 mil	Max.	56 mil	Max.	40 mil 63 mil
<b>8104 INK</b>							S	L
A5	Min.	14 mil	Min.	26 mil	Min.	24 mil	Min.	14 mil 23 mil
	Mid.	25 mil	Mid.	49 mil	Mid.	44 mil	Mid.	25 mil 47 mil
	Max.	30 mil	Max.	54 mil	Max.	50 mil	Max.	30 mil 53 mil
A6	Min.	20 mil	Min.	33 mil	Min.	27 mil	Min.	20 mil 30 mil
	Mid.	34 mil	Mid.	56 mil	Mid.	50 mil	Mid.	34 mil 56 mil
	Max.	39 mil	Max.	65 mil	Max.	56 mil	Max.	39 mil 63 mil
A8	Min.	38 mil	Min.	51 mil	Min.	54 mil	Min.	38 mil 54 mil
	Mid.	59 mil	Mid.	80 mil	Mid.	85 mil	Mid.	59 mil 85 mil
	Max.	67 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.

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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).

## DieMark® Pneumatic Inker Dot Size Guidelines in Microns (µm)

Dot Size Guidelines in Microns	Micro-Z X711X Manual & X712X Micro-Z Motorized Series DM-2		X1000 & X901 Series DM-2		X5000 Series DM-2.3		Motorized-Z S = Small Dot L = Large Dot DM-2		
<b>8103 INK</b>								S	L
A4	Min.	89 µm	Min.	0	Min.	0	Min.	0	0
	Mid.	172 µm	Mid.	0	Mid.	0	Mid.	0	0
	Max.	254 µm	Max.	0	Max.	0	Max.	0	0
A5	Min.	254 µm	Min.	304.8 µm	Min.	330.2 µm	Min.	*	254 µm
	Mid.	482.6 µm	Mid.	533.4 µm	Mid.	584.2 µm	Mid.	*	482.6 µm
	Max.	558.8 µm	Max.	609.6 µm	Max.	685.8 µm	Max.	*	558.8 µm
A6	Min.	279.4 µm	Min.	381 µm	Min.	431.8 µm	Min.	*	279.4 µm
	Mid.	584.2 µm	Mid.	635 µm	Mid.	685.8 µm	Mid.	*	584.2 µm
	Max.	711.2 µm	Max.	736.6 µm	Max.	762 µm	Max.	*	711.2 µm
A8	Min.	431.8 µm	Min.	558.8 µm	Min.	584.2 µm	Min.	*	431.8 µm
	Mid.	812.8 µm	Mid.	939.8 µm	Mid.	990.6 µm	Mid.	*	812.8 µm
	Max.	965.2 µm	Max.	1066.8 µm	Max.	1092.2 µm	Max.	*	965.2 µm
<b>6990 / 6993 / 6997 INK</b>								S	L
A4	Min.	102 µm	Min.	0	Min.	0	Min.	0	0
	Mid.	178 µm	Mid.	0	Mid.	0	Mid.	0	0
	Max.	254 µm	Max.	0	Max.	0	Max.	0	0
A5	Min.	228.6 µm	Min.	406.4 µm	Min.	431.8 µm	Min.	228.6 µm	304.8 µm
	Mid.	304.8 µm	Mid.	711.2 µm	Mid.	736.6 µm	Mid.	304.8 µm	584.2 µm
	Max.	406.4 µm	Max.	812.8 µm	Max.	838.2 µm	Max.	406.4 µm	711.2 µm
A6	Min.	203.2 µm	Min.	508 µm	Min.	457.2 µm	Min.	203.2 µm	355.6 µm
	Mid.	406.4 µm	Mid.	812.8 µm	Mid.	812.8 µm	Mid.	406.4 µm	711.2 µm
	Max.	482.6 µm	Max.	914.4 µm	Max.	914.4 µm	Max.	482.6 µm	863.6 µm
A8	Min.	304.8 µm	Min.	736.6 µm	Min.	685.8 µm	Min.	304.8 µm	533.4 µm
	Mid.	609.6 µm	Mid.	1320.8 µm	Mid.	1270 µm	Mid.	609.6 µm	1041.4 µm
	Max.	736.6 µm	Max.	1524 µm	Max.	1447.8 µm	Max.	736.6 µm	1270 µm
<b>7824 INK</b>								S	L
A4	Min.	152 µm	Min.	0	Min.	0	Min.	0	0
	Mid.	216 µm	Mid.	0	Mid.	0	Mid.	0	0
	Max.	279 µm	Max.	0	Max.	0	Max.	0	0
A5	Min.	254 µm	Min.	482.6 µm	Min.	457.2 µm	Min.	254 µm	381 µm
	Mid.	457.2 µm	Mid.	838.2 µm	Mid.	838.2 µm	Mid.	457.2 µm	736.6 µm
	Max.	533.4 µm	Max.	965.2 µm	Max.	965.2 µm	Max.	533.4 µm	863.6 µm
A6	Min.	330.2 µm	Min.	635 µm	Min.	508 µm	Min.	330.2 µm	558.8 µm
	Mid.	609.6 µm	Mid.	1117.6 µm	Mid.	914. µm	Mid.	609.6 µm	1041.4 µm
	Max.	736.6 µm	Max.	1270 µm	Max.	1041. µm	Max.	736.6 µm	1168.4 µm
A8	Min.	508 µm	Min.	939.8 µm	Min.	736.6 µm	Min.	508 µm	787.4 µm
	Mid.	863.6 µm	Mid.	1498.6 µm	Mid.	1270 µm	Mid.	863.6 µm	1397 µm
	Max.	1016 µm	Max.	1752.6 µm	Max.	1422.4 µm	Max.	1016 µm	1600.2 µm
<b>8104 INK</b>								S	L
A5	Min.	355.6 µm	Min.	660.4 µm	Min.	609.6 µm	Min.	355.6 µm	584.2 µm
	Mid.	635 µm	Mid.	1244.6 µm	Mid.	1117.6µm	Mid.	635 µm	1193.8 µm
	Max.	762 µm	Max.	1371.6 µm	Max.	1270 µm	Max.	762 µm	1346.2 µm
A6	Min.	508 µm	Min.	838.2 µm	Min.	685.8 µm	Min.	508 µm	762 µm
	Mid.	863.6 µm	Mid.	1422.4 µm	Mid.	1270 µm	Mid.	863.6 µm	1422.4 µm
	Max.	990.6 µm	Max.	1651 µm	Max.	1422.4 µm	Max.	990.6 µm	1600.2 µm
A8	Min.	965.2µm	Min.	1295.4 µm	Min.	1371.6 µm	Min.	965.2µm	1371.6 µm
	Mid.	1498.6 µm	Mid.	2032 µm	Mid.	2159 µm	Mid.	1498.6 µm	2159 µm
	Max.	1701.8 µm	Max.	2286 µm	Max.	2362.2 µm	Max.	1701.8 µm	2260.6 µm

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