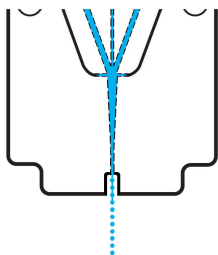
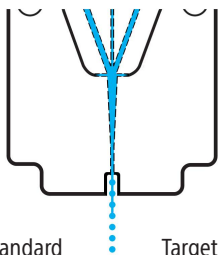
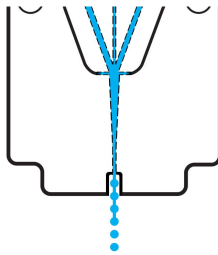


SH800 and MA900 Sorting Chip Guide

Part number	LE-C3207		LE-C3210		LE-C3213
Nozzle size	70 μm		100 μm		130 μm
					
Mode			Standard	Targeted	
Drop frequency (Empty drops/second)	~50 K		~30 K	~22 K	~12 K
Max suggested* event rate (Total events/second)	12 K		6 K	<4 K	2.5 K
	*When sorting for purity, do not exceed the indicated event rate.				
Drop volume	1.5 nL		3 nL	4 nL	7.9 nL
Sorted events/1 mL (of sorted volume)	~700 K		~333 K	~250 K	~40-125 K
Application	<ul style="list-style-type: none"> Fastest sort speed Limited to small particles Runs at highest pressure 		<ul style="list-style-type: none"> Most common nozzle for various cell types Targeted Mode improves targeting precision of larger cells with uneven geometry into tubes or multi-well plates 		<ul style="list-style-type: none"> Provides best viability Runs at lowest pressure Slowest sort speed Can sort any cell size under 25 μm plates
Cell type examples	<i>E. Coli</i> RBC Yeast Spleen		Bone Marrow CHO Macrophages Cultured Stem Cells Lymphocytes		ES cells K562 Fibroblasts Neurons Hybridoma HeLa HEK-293T
FSC gain	16 8		4		0.5-1
Particle size (Nozzle size must be 5 to 7x larger than particle size)	<10 μm		<18 μm		<25 μm
	Cell Sorter software autocalibrates optimal settings for each individual chip				
Pressure	40 psi		20 psi		9 psi
Frequency (clock)	40-52 kHz		27-31 kHz	21-23.5 kHz	10-12 kHz
Droplet profile	