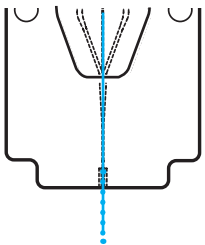
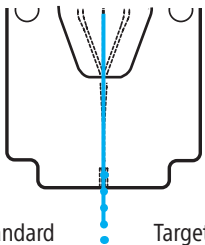
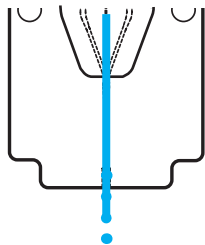


## SH800 and MA900 Sorting Chip Guide

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