

Constant Volume Fractional Collector BOM

Name of Part	Number	Price	Origin	Discription	Link	Price Per Unit
Ramps 1.4 Kit	1	\$29.99	Ebay		https://www.ebay.com/itm/121544411000	
Nema 17 Stepper Motors	3	\$38.97	Amazon		https://www.amazon.com/dp/B078K13334	\$12.99
DS3231 Precision RTC	1	\$2.35	Ebay	Real Time Clock	https://www.ebay.com/itm/121544411000	
LIR2032 Battery	1	\$7.08	Ebay	DO NOT USE CR2032	https://www.ebay.com/itm/121544411000	
#4-40 Machine Screw x 3/4"	8	\$0.47	Fastenal		https://www.fastenal.com	\$0.06
#4-40 Machine Screw x 1/2"	20	\$0.60	Fastenal		https://www.fastenal.com	\$0.03
#4-40 Machine Screw x 1/4"	8	\$0.24	Fastenal		https://www.fastenal.com	\$0.03
#4-40 Nut	15	\$0.00	Fastenal			
#6 Woodscrew Pan Head x 3/4"	18	\$1.25			https://www.fastenal.com	\$0.07
#10-24 Machine Screw x 1/2"	1	\$0.04	Fastenal		https://www.fastenal.com	\$0.04
M3-0.5 x 6mm Machine Screw	12	\$0.59	Fastenal	used to attach stepper motors	https://www.fastenal.com	\$0.05
M3-0.5 x 10mm Machine Screw	2	\$0.10	Fastenal	to secure endstop	https://www.fastenal.com	\$0.05
M5-0.8 x 50mm Machine Screw	1	\$0.50	Fastenal		https://www.fastenal.com	\$0.50
M5-0.8 Nut	2	\$0.24	Fastenal		https://www.fastenal.com	0.12
Silicone Tubing 0.5mm x 1.5mm	>2ft	\$11.26	Ebay		https://www.ebay.com/itm/121544411000	
Silicone Tubing 2mm x 4mm	>2ft	\$6.30	Amazon		https://www.amazon.com/dp/B078K13334	
1/8" x 3/4" Steel Dowel Pins x100	1	\$10.25	Ebay	6 per pump	https://www.ebay.com/itm/121544411000	
1kg PLA Filament	1	\$22.99	Amazon		https://www.amazon.com/dp/B078K13334	
3/4" MDF	1	\$7.71	Home Depot		https://www.homedepot.com/p/3-4-in-x-4-ft-x-1-2-in-MDF-Board-208122	
1/4" Smooth Wood Paneling	1	\$7.75	Home Depot		https://www.homedepot.com/p/1-4-in-x-4-ft-x-1-2-in-MDF-Board-208122	
625ZZ	2	\$1.40	Amazon	5mm ID 16mm OD	https://www.amazon.com/dp/B078K13334	\$0.70
Nylon Washer 1.25" x 0.38" x 0.125"	2	\$1.90	Ace hardware			\$0.95
Blunt 22g Needle	1	\$0.38	Tractor Supply	Blunted with dremel	https://www.tractorsupply.com	\$0.38
Total:		\$151.98				