

ML1 Parts	Qty.	Description	Mfg. Part #	Unit cost	Ext. Cost	Supplier	Comments
Frame	2	Aluminum Frame - side rails	HFSB5-2525-460	\$7.68	\$15.36	us.misumi-ec.com	no price break <20+
	1	Aluminum Frame - top rail	HFSB5-2525-285	\$4.72	\$4.72	us.misumi-ec.com	Price break @10
	1	Aluminum Frame - bottom rail	HFSB5-2550-285	\$8.04	\$8.04	us.misumi-ec.com	Price break @10
	1	Aluminum Frame - y axis	HFSQN4-1050-345	\$5.96	\$5.96	us.misumi-ec.com	no price break <75
	2	Smooth Rods	PSFG8-375	\$7.17	\$14.34	us.misumi-ec.com	Price break @4 - Old rods were RGOC8-375
Printbed	1	Y carriage Plate	8.625 with hole pattern	\$11.15	\$11.15	Laserfab.net	Price includes shipping.
	1	Y Glass	8.375 x 7.9375 x .125"	\$4.00	\$4.00	St Pete Glass & Mirror, 5565 64th Way N, St Pete	
	1	PCB Black	custom order	\$26.00	\$26.00	AvantiCircuits.com	Price includes shipping.
Pulleys	2	Pulley - 20 tooth aluminum	210	\$5.50	\$11.00	OpenBuilds.com	Possible alt = B&B Manufacturing
Belts	4'	6mm GT2 Belt	GT2 Timing Belt	\$2.66	\$10.64	Ultibots.com	Price break @20m
X Idler	1	Vslot Idler	550-PACK	\$4.85	\$4.85	OpenBuilds.com	Price break @20
Wheels	4	Vslot Wheel Kits - Delrin	500-Pack	\$4.13	\$16.50	OpenBuilds.com	Price break @20 - Includes Shipping
	4	Spacer, #10 hole, 1/4" tall, AL	6TA23	\$0.42	\$1.69	Grainger	Price includes shipping
Bearings	5	8mm x 22mm 608-ZZ Bearing	0474510	\$0.79	\$3.94	Fastenal	
	4	Pillow block bearing	KSTM-08	\$2.54	\$10.16	igus.com	
Extruder motor	1	PG35L geared stepper motor	PG35L	\$23.70	\$23.70	Ultibots.com	Price break @5
Heat sink	1	PG35L short fin heat sink	PG35L short fin heat sink	\$7.95	\$7.95	Ultibots.com	
Extruder hardware	1	Micro-extruder kit	MEV5HWK3	\$22.95	\$22.95	Ultibots.com	Price break @4
Fans, extruder & box	2	Fan - 40x40x10mm 12v 8cfm		\$2.32	\$4.64	Amazon	\$2.84 FolgerTech; \$2.95 Ultibots
	1	Fan - 25x25x10mm 12v		\$2.59	\$2.59	Amazon	\$5.00 SeeMeCNC - Comes with Hexagon?
Rambo	1	Rambo V1.1b		\$85.00	\$85.00	RepRapElectro.com	Price break @10
Nema 17	0	Nema-17 Stepper Motors	817752011303	\$13.95	\$0.00	Lulzbot.com	
	4	Nema-17 Stepper Motors	MNEMA17-40	\$6.80	\$27.20	RobotDigg	\$10.30 inc shipping
Hotend	0	Budaschnozzle 2.0 w/ .35 nozzle	817752014212	\$95.00	\$0.00	Lulzbot.com	
	1	Hexagon w/ .4 nozzle	Hexagon	\$35.00	\$35.00	RepRapDiscount.com	Price break @10
Power Supply	1	12vDC 16A PSU w/ 4pin plug	817752012478	\$45.00	\$45.00	Lulzbot.com	
	1	DIN 4-pin female receptacle	817752012485	\$2.50	\$2.50	Lulzbot.com	
Wiring	12"	#14 str ins CU (red & black) - 12"			\$0.00	Carman	local purchase as needed - no bulk supplier yet
	4	#14 female blade crimp connector	A27828-ND	\$0.24	\$0.95	Fastenal	0.16 > 100; 58568 = Fastenal
	84"	#24 CU stranded coated (red)			\$0.00	Carman	Red
	42"	#24 CU stranded coated (others)			\$0.00	Carman	Orange, Yellow, Green, Blue, Black
	1	Rocker Switch	CH784-ND	\$1.37	\$1.37	Digikey.com	1.43 > 10; 1.37 >25
	2	Molex female 4-pin housing	WM6676-ND	\$0.73	\$1.46	Digikey.com	1.06 > 10 - use with pin WM2517
	8	Molex male pin	WM2517CT-ND	\$0.08	\$0.68	Digikey.com	0.08 > 100 - use with housing WM6676
	0	Molex male 4-pin housing	WM5329-ND	\$0.34	\$0.00	Digikey.com	0.335 > 25 (usually comes w/board) - use with pin WM2573
	0	Molex female pin	WM2573CT-ND	\$0.16	\$0.00	Digikey.com	0.157 > 100 (some come w/board) - with housing WM5329
	1	Molex male 2-pin header	WM4000-ND	\$0.16	\$0.16	Digikey.com	0.164 > 50
	0	Molex 2-pin housing	WM2800-ND	\$0.32	\$0.00	Digikey.com	0.2696 > 25 (usually comes with endstops) - use with pin WM2573
	3	Eurostyle Terminal Strip	0765017	\$0.09	\$0.28	Fastenal	3240169-ND Digikey
	18"	1/2" PET Braided Sleeving	X000FEJPET	\$0.26	\$4.68	Amazon/ElectriDuct Inc.	100' roll, \$25.99
	24"	1/4" PET Braided sleeving	BS-XO-025-BK-100	\$0.23	\$5.52	ElectriDuct Inc.	100' roll, \$22.99
	2"	1/2" heat shrink tubing	0705396	\$0.10	\$0.19	Fastenal	20 x 6" / \$11.53 = \$0.096 per inch
	6"	1/4" heat shrink tubing	0705394	\$0.07	\$0.43	Fastenal	26 x 6" / \$11.16 = \$0.072 per inch
Lighting	1'	Blue LEDs	AR-ST224BLU	\$0.00	\$0.00	Frontier Lighting	Aurora Lighting Product - \$6.40/ft
	0.5'	White LEDs	???	\$0.00	\$0.00	Frontier Lighting	Aurora Lighting Product
Springs	4	Compression Spring 302-SS OD-0.18" WD-0.022" FL- 0.69" CL-0.365" L-2.61# R-8#	B005KSQ4H0	\$1.20	\$4.79		Compression Spring 302 Stainless OD 0.18" Wire Size 0.022" Free Length 0.69" Compressed 0.365" Load 2.61# Rate 8#
Filament	1	One free roll of PLA filament		\$31.00	\$31.00		

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Total					\$504.91		
					\$27.85	Total from Screws Page	
					\$20.69	Total from Toolkit Page	