

Part #	Component	Description	Quantity	Cost Per Unit	Total Cost
HE1	Aluminum Bar	Multipurpose 6061 Aluminum 1/2" Thick x 1" Wide x 6" Long	1	4.92	4.92
HE2	Volcano nozzle	Brass E3D Volcano Nozzle 1.75mm in 1.2mm out	1	7.1	7.1
HE3	Heater Cartridge	24V, 40W, E3D High Precision Heater Cartridges	2	20	40
HE4	Heat Sink	BGAH270-175E Heat Sink, 3.5 C/W Natural Thermal Resistance	1	6.61	6.61
HE5	Silicon Casting Kit	Platinum Liquid Silicone for Mold Making	1	34	34
HE6	Heat Break	Bimetal Heatbreak Titanium Alloy and Copper	1	8.99	8.99
HE7	Bowden Tube	Bowden PTFE Tube for 1.75mm Filament with Fittings	1	11.45	11.45
HE8	Thermal Paste	Corsair TM30 Performance Thermal Paste 0.029 C/W	1	7.99	7.99
HE9	Heat Break Fan	FAN AXIAL 40X20MM 24VDC WIRE 4.4 CFM	1	6	6
HE10	Print Fan	FAN BLOWER 76X30MM 24VDC WIRE, B7530E24B-BSR	1	15.8	15.8
HE11	Hot End Thermistor	E3D Semitec 104NT Cartridge	1	7	7
HE12	Mini Heated Bed	100mm x 100mm 24/12V Openbuild Heated Bed	1	10.99	10.99
HE13	PEI Sheet	Gizmo Dorks PEI Sheet 5" x 5.5"	1	12	12
HE14	Bed Thermistor	THERM NTC 100KOHM 4263K BEAD	1	1.19	1.19
HW1	Z-Axis 3030 Aluminum Extrusion	288.5mm Long, Black Anodized	1	6.66	6.66
HW2	Y-Axis 3030 Aluminum Extrusion	261mm Long, Black Anodized	2	6.66	13.33
HW3	MGN12H Linear Rail	200mm Long	4	13.99	55.96
HW4	8mm Metric Acme Lead Screw	290mm long	1	10.99	10.99
HW5	Anti-Backlash Nut Block	For 8mm Metric Acme Lead Screw	1	9.99	9.99
HW6	5mm * 8mm Flexible Coupling	For 8mm Metric Acme Lead Screw	1	6.99	6.99
HW7	Flanged Bearing	688ZZ 8x16x5	2	1.5	3
HW8	Timing Belt	GT2-2M, 5 Ft.	1	12.45	12.45
HW9	Belt Crimps	Copper	4	2.5	10
HW10	Smooth Idler Pulley	OD: 22mm ID: 16mm Width: 12.7mm	2	5.99	11.98
HW11	Extruder Drive Gear	36Teeth Bore 5mm Stainless Steel Drive Gear	1	6.99	6.99
HW12	Timing Pulley Gear	30 Tooth GT2-2M	2	6.99	13.98
HW13	Bearing Block Spacer	M5 ID, 40mm, 10mm OD, Aluminum	4	1.5	6
HW14	Extruder Idler Bearing	4mmx13mmx4mm Double Metal Shielded Carbon Steel Bearings	1	0.66	8
E1	RAMPS 1.4 Shield	Shield For Arduino Mega	1	10	10
E2	Arduino Mega	Mega 2560 5V	1	20.99	20.99
E3	24V Meanwell Power Supply	LRS-350-24, 24V/14.6A MeanWell Power Supply	1	70	70

E4	Stepper Motor Driver	Pololu 3099, 1.1A Continuous	4	12.25	49
E5	Stepper Motor Driver Heat Sink	SilentStepStick Heatsink 9 x 9 x 12	4	0.93	3.72
E6	End Stop Switches	Kailh BOX Black Switches Plate Mount - Linear	3	1.16	3.5
E7	Stepper Motor	SF2422-10B41, Bipolar Stepper Motor Hybrid Frame Size 200.0 Step 1 A 24VDC	4	26	104
E8	JST 2Pin Connector Female	Amazon, 20pcs per 8.99	7	0.45	8.99
E9	Stepper Motor Cables	SANMOTION 4835775-1	4	3.75	15
E10	JST 4Pin Connector Female	Amazon, 20pcs per 8.59	4	0.45	8.59
P1	X-AxisBackPlate	41g PETG, 0.8mm nozzle, 20% infill	1	1.03	1.03
P2	X-AxisMotorFixture	31g PETG, 0.8mm nozzle, 20% infill	1	0.78	0.78
P3	HotEndBackPlate	8g PETG, 0.8mm nozzle, 20% infill	1	0.2	0.2
P4	HotEndFrontPlate	6g PETG, 0.8mm nozzle, 20% infill	1	0.15	0.15
P5	X-AxisBackPlateSpacer	1g PETG, 0.8mm nozzle, 20% infill	2	0.03	0.06
P6	X-AxisTensionerBase	40g PETG, 0.8mm nozzle, 20% infill	1	1	1
P7	Y-AxisRailConnectingPlate	14g PETG, 0.8mm nozzle, 20% infill	1	0.35	0.35
P8	BedBasePlate	27g PETG, 0.8mm nozzle, 20% infill	1	0.68	0.68
P9	LevelingKnob	1g PETG, 0.8mm nozzle, 20% infill	4	0.03	0.12
P10	Y-AxisFrontPlate	42g PETG, 0.8mm nozzle, 20% infill	1	1.05	1.05
P11	BearingPillowBlockPlate	5g PETG, 0.8mm nozzle, 20% infill	1	0.13	0.13
P12	Z-AxisMotorFixture	16g PETG, 0.8mm nozzle, 20% infill	1	0.4	0.4
P13	LeadScrewBearingFixture	16g PETG, 0.8mm nozzle, 20% infill	1	0.4	0.4
P14	Y-AxisRearPlate	54g PETG, 0.8mm nozzle, 20% infill	1	1.35	1.35
P15	X-AxisTensioner	13g PETG, 0.8mm nozzle, 20% infill	1	0.33	0.33
P16	ExtruderMotorFixture	25g PETG, 0.8mm nozzle, 20% infill	1	0.63	0.63
P17	PowerSupplyMountingPlate	126g PETG, 0.8mm nozzle, 20% infill	1	3.15	3.15
P18	Y-AxisTensioner	10g PETG, 0.8mm nozzle, 20% infill	1	0.25	0.25
P19	Y-AxisBeltAnchor	2g PETG, 0.8mm nozzle, 20% infill	1	0.05	0.05
P20	X-AxisEndStop	5g PETG, 0.8mm nozzle, 20% infill	1	0.13	0.13
P21	HotEndSpacer	3g PETG, 0.8mm nozzle, 20% infill	4	0.08	0.32
P22	Z-AxisBasePlate	70g PETG, 0.8mm nozzle, 20% infill	1	1.75	1.75
P23	PrintFanFixture	6g PETG, 0.8mm nozzle, 20% infill	1	0.15	0.15
P24	FanDuct	102g PETG, 0.8mm nozzle, 20% infill	1	2.55	2.55
P25	Z-AxisEndStopFixture	3g PETG, 0.8mm nozzle, 20% infill	1	0.08	0.08
P26	Y-AxisEndStopFixture	10g PETG, 0.8mm nozzle, 20% infill	1	0.25	0.25
P27	FrontBasePlate	50g PETG, 0.8mm nozzle, 20% infill	1	1.25	1.25

P28	ArduinoCaseBottom	119g PETG, 0.8mm nozzle, 20% infill	1	2.98	2.98
P29	ArduinoCaseTop	117g PETG, 0.8mm nozzle, 20% infill	1	2.93	2.93
P30	ArduinoCaseGrate	10g PETG, 0.8mm nozzle, 20% infill	1	0.25	0.25
P31	Y-Z-AxisConnectingBracket	7g PETG, 0.8mm nozzle, 20% infill	1	0.18	0.18
P32	ExtruderLever	7g PETG, 0.8mm nozzle, 20% infill	1	0.18	0.18
P33	ExtruderPlate	11g PETG, 0.8mm nozzle, 20% infill	1	0.28	0.28
P34	ExtruderSpringEndstop	1g PETG, 0.8mm nozzle, 20% infill	1	0.03	0.03
P35	EndStopCap	2g PETG, 0.8mm nozzle, 20% infill	1	0.05	0.05
P36	BacklashNutSpacer	1g PETG, 0.8mm nozzle, 20% infill	2	0.03	0.06
F1	M3x10mm Socket Head	McMaster-Carr: 91290A115, \$9.54 per pack of 100	4	0.1	9.54
F2	M3x12mm Socket Head	McMaster-Carr:91290A117, \$10.85 per pack of 100	5	0.11	10.85
F3	M3x16mm Socket Head	McMaster-Carr:91290A120, \$11.48 per pack of 100	1	0.11	11.48
F4	M3x20mm Socket Head	McMaster-Carr:91290A123, \$13.59 per pack of 100	5	0.14	13.59
F5	M3x25mm Socket Head	McMaster-Carr:91290A125, \$16.70 per pack of 100	7	0.17	16.7
F6	M3x30mm Socket Head	McMaster-Carr:91290A171, \$7.17 per pack of 10	1	0.72	7.17
F7	M3x45mm Socket Head	Openbuilds, 1 pc per 0.29\$	4	0.29	1.16
F8	M3x70mm Socket Head	McMaster-Carr:91290A297, \$4.26 per pack of 1	4	4.26	17.04
F9	M3x6mm Flat Head	McMaster-Carr:91294A126, \$5.45 per pack of 100	8	0.05	5.45
F10	M3x12mm Flat Head	McMaster-Carr:91294A132, \$7.34 per pack of 100	1	0.07	7.34
F11	M3x30mm Flat Head	McMaster-Carr:91294A141, \$6.93 per pack of 50	7	0.04	6.93
F12	M3x35mm Flat Head	McMaster-Carr:91294A536, \$13.17 per pack of 25	2	0.53	13.17
F13	M3x6mm Button Head	Openbuilds, 10 pcs per 1\$	1	0.1	1
F14	M3x8mm Button Head	Openbuilds, 10 pcs per 1\$	41	0.1	5
F15	M3x12mm Button Head	Openbuilds, 10 pcs per 1\$	6	0.1	1
F16	M3x18mm Button Head	McMaster-Carr:92095A472, \$8.70 per pack of 100	2	0.09	8.7
F17	M3x25mm Button Head	McMaster-Carr:92095A186, \$6.34 per pack of 50	4	0.13	6.34
F18	M3 Set Screw 6mm	McMaster-Carr:91390A100, \$6.52 per pack of 100	5	0.07	6.52
F19	M3 Tnut	Openbuilds, 10 pcs per 2.79\$	33	0.28	11.16
F20	M3 Nut	McMaster-Carr:90592A085, \$2.62 per pack of 100	32	0.03	2.62
F21	M4x12mm Socket Head	McMaster-Carr:91290A148, \$11.54 per pack of 100	2	0.12	11.54
F22	M5x6mm Socket Head	McMaster-Carr:91290A221, \$13.12 per pack of 100	18	0.13	13.12
F23	M5x8mm Socket Head	McMaster-Carr:91290A222, \$12.28 per pack of 100	2	0.13	12.28
F24	M5x12mm Socket Head	McMaster-Carr:91290A228, \$15.38 per pack of 100	2	0.15	15.38
F25	M5x18mm Socket Head	McMaster-Carr:91290A238, \$17.44 per pack of 100	1	0.17	17.44

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