

Table 1

Item	Number	Comments	Source
Nema 17	4		http://www.tridprinting.com/Electronics/ \$17 each = \$68
Endstop	3		http://www.tridprinting.com/Electronics/#3D-Printer-End-Stops-Limit-Switches 3 for \$7
Hotend	1	Hotend with thermistor and heat cartridge, E3D V6, Ubis, Jhead	http://www.tridprinting.com/Hot-Ends/ \$60 for J-head,
Smooth rods 8 mm	6	X axis +90mm + printable length (300-90=210mm printable length) Y axis +70mm +printable length (300-70=230mm printable length) Z axis +150mm +printable length (300-150=150mm printable height) order six rods 30cm long	http://printrbot.com/shop/printrbot-smooth-rod/ \$8 each X 6 = \$48 10inch=255mm long 8mm
Threaded rod M5	1	Z axis +70 + printable height (match smooth rods above) Order one 30cm long	
Nut M5	1	Insert in plate_X on the side.	Hardware store or home depot
Bearings LM8UU	12	Use four on each axis.	http://printrbot.com/shop/8mm-bearing/ \$2 each X 12 = \$24
Bearings 608ZZ	1	For extruder?	Get at local skate shop
GT2 Belt	1	1 meter	http://www.tridprinting.com/Mechanical-Parts/ \$2.50 for 1 meter
Pulleys	2	X and Y axes	http://www.tridprinting.com/Mechanical-Parts/ 16 or 20 teeth pulleys 3 for \$7
Printer Bed	1	measure size of printable area in X and Y directions	Buy metal plate from Printrbot and auto leveling probe OR Get glass at local store, use picture frame glass cut to size.
Wood Plank	1	5 inches X 8 inches by 1/2 inch thick, drill holes in bottom plastic plate and screw to plank	Get local, 1/2 inch board cut to size
Screws	1	M6 X 60mm	Hardware store or home depot
	20	M3 X 10mm	Hardware store or home depot http://www.tridprinting.com/Nuts-Bolts-Screws/ 80 for \$5
	4	M3 X 20mm need two to attach hot end, two if using fishing line	Hardware store or home depot http://www.tridprinting.com/Nuts-Bolts-Screws/ 65 for \$5
Nuts		M3	http://www.tridprinting.com/Nuts-Bolts-Screws/ 250 for \$5
Push Fits	2	For bowden tube	http://www.tridprinting.com/Hot-Ends/#3D-Printer-Push-Fit-Fitting 2 for \$7 either small (m5 Thread 8 mm Width Across Flats Connection Thread R M5 x 0.8) OR large (1/8" Thread 10 mm Width Across Flats Connection Thread R 1/8)
Extruder	1	Pick extruder that works with bowden tube - Greg's Wade, Airripper, Wades, etc	http://www.tridprinting.com/BOM/Kossel-Mini/Airripper kit \$50
LCD	1	Reprap Discount smart controller	
PCB	1	Mega2560/Ramps1.4 with 4 A6988 stepper drivers	
Power Supply	1	12volt, 6amp brick	ATX power supplies salvaged at school or buy brick for \$55
Set of Printed Parts	1	Get latest version from Github account for smartfriendz	