

	<b>Cost</b>	<b>QTY</b>	<b>Total</b>
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### **Mechanical Components**

Linear Motion Kit	\$29.69	1	\$29.69
• 2 x 500mm 8mm Linear Shaft			
• 1 x 500mm 8D 8mm Threaded Rod			
• 4 x Linear Bearings			
• 4 x Linear Shaft Mounts			
• 2 x Threaded Rod Mounts			
• 2 x Flexible Coupler			
Rotary Tool Kit	\$19.73	1	\$19.73
• 1 x Rotary Tool			
• 9 x Miscellaneous Cutting Bits			

### **Stock**

Pine Plywod - 3/4" x 4' x 8'			
MDF - 1/4" x 18" x 24"	\$2.25	6	\$13.50
Blue Acrylic - 1/8" x 12" x 24"	\$14.27	1	\$14.27
Lexan Sheet - 18" x 24"	\$21.98	2	\$43.96
3/8-16 Threaded Rod	\$1.24	1	\$1.24
Steel Shaft - 1/4" x 6"	\$4.78	1	\$4.78
Aluminum Shaft - 1/2"	\$1.18	1	\$1.18
6061 Aluminum Bar - 1"x 2" x 3"	\$13.21	1	\$13.21
1 kg PLA Roll	\$16.99	1	\$16.99

### **Hardware + Tooling**

Additional Cutting Bits	\$7.99	1	\$7.99
1/4-28 Left Handed Die	\$14.73	1	\$14.73
1/2" ID Bearings	\$4.20	1	\$4.20
Spray Paint	\$6	2	\$12
Primer	\$10	1	\$10
3/4" lg. #8 spacer	\$9.85	1	\$9.85
1/8" lg. #8 spacer	\$8.18	1	\$8.18
Assorted Hardware	\$20.00	~	\$20.00

### **Electrical Components**

Magnetic Switch	\$0.66	1	\$0.66
Stepper Driver Kit	\$26.99	1	\$26.99
• 1 x CNC Shield V3.0			
• 4 x Pololu A4988 Motor Drivers			
• 4 x Heat Sinks			
• 1 x Nema 17 12V/0.4A Stepper Motor			
• 1 x Arduino Uno R3			
• 1 x USB Cable			
Nema 17 2.8V/1.7A Stepper Motor	\$16.95	2	\$33.90

Relay 12V/120VAC	\$10.43	1	\$10.43
5A Breaker	\$4.01	1	\$4.01
Custom PCBs (10 pcs)	\$5.00	1	\$5.00
N-channel MOSFET 30V 6A	\$0.57	2	\$1.14
Resistor SMD 10K 1% 1/4W 0805	\$0.35	2	\$0.70
Resistor SMD 200 5% 1/8W 0805	\$0.10	1	\$0.10
Resistor SMD 1K 1% 1/4W 0805	\$0.10	1	\$0.10
LED Green SMD 0805	\$0.25	2	\$0.50
Header Male RA 01x14	\$1.83	1	\$1.83
Arduino Shield Stacking Header Kit	\$1.95	1	\$1.95
Outlet Splitter	\$5.99	1	\$5.99
Outlet	\$1.19	1	\$1.19
Fan	\$6.52	1	\$6.52
C14 Panel Mount Socket	\$1.57	1	\$1.57
12V 5A Power Supply	\$9.99	2	\$19.98
Arduino Joystick	\$6.66	1	\$6.66
Red Cover SPST 12V 20A Rocker Switch	\$5.29	1	\$5.29
Assorted Electrical Connector Terminals	\$1.50	1	\$1.50
Assorted Wiring	\$1.00	1	\$1.00
Assorted Heat Shrink	\$2.00	1	\$2.00
Assorted Wire Mesh	\$2.00	1	\$2.00
Assorted Zip Ties	\$1.00	1	\$1.00
Assorted Wire Crimps and Headers	\$1.00	1	\$1.00
Electrical Tape	\$0.50	1	\$0.50

**Total**    \$359.32