

Part Number	Name	Quantity	Link/Download
1	Base - 3D Printed	1	STL, STEP, SLDPRRT download
2	Knob - 3D Printed	1	STL, STEP, SLDPRRT download
3	Lid - 3D Printed	1	STL, STEP, SLDPRRT download
4	Arm - Bearing - 3D Printed	2	STL, STEP download
5	Arm - Motor - 3D Printed	1	STL, STEP download
6	Triangle Support - 3D Printed	1	STL, STEP download
7	Bearing Insert - 3D Printed	3	STL, STEP download
8	Platform - 3D Printed	1	STL, STEP download
9	Platform Fence - 3D Printed	2	STL, STEP download
10	Sample Holder Primary - 3D Printed	2	STL, STEP download
11	Sample Holder End Piece - 3D Printed	4	STL, STEP download

12	Sample Holder Secondary - 3D Printed	2	STL, STEP download
13	NEMA 17 Stepper Motor (84 in.-oz. Maximum Holding Torque)	1	McMaster-Carr
14	Rocker Switch	1	Amazon
15	A4988 Stepper Motor Driver (with heat sink attached)	1	Amazon
16	100 μ f Capacitor	1	Amazon
17	LCD Display	1	Amazon
18	Solderless Jumper Wires (pack of 120)	1	Amazon
19	Arduino UNO R3 in Plastic Holder	1	Amazon
20	Potentiometer	1	Amazon
21	DC Power Jack	1	Delivered with Power Supply (Part 24 and 25)
22	Breadboard (5.5×8.2×0.85cm)	1	Amazon
23	5.5mm x 2.1mm Inline Power Switch for Arduino	1	Amazon
24	9V 500mA Power Supply (for Arduino)	1	Amazon
25	12V 1A Power Supply (for Motor)	1	Amazon
26	USB A/B Cable (for computer to Arduino)	1	Amazon
27	608-2RS Bearings	5	Amazon
28	Silicone Self Adhesive Floor Protectors	1	Amazon
—	8-32 Hex Nuts	35	Amazon
—	4-40 Hex Nuts	7	Amazon
—	4-40 x 3/4" Phillips Head Screw	3	Amazon
—	4-40 x 1/2" Phillips Head Screw	4	Amazon
—	8-32 x 2 1/2" Phillips Head Screw	4	Amazon

—	8-32 x 3/4" Phillips Head Screw	9	Amazon
—	8-32 x 1/2" Phillips Head Screw	7	Amazon
—	8-32 x 1/4" Phillips Head Screw	1	Amazon