

Serial number	Name	Specification	Amount	Unit price	Total cost	
1	8mm optical shaft	398mm, X-axis	2	6.05/m	4.92	
2		334mm, Y-axis	2	6.05/m	4.92	
3		390mm, Z-axis	4	6.05/m	9.84	
4	Extended flange linear bearings	LMF8LUU 8*15*45	4	3.16	12.65	
5	Longer linear bearings	LM8LUU 8*15*45	4	1.07	4.29	
6	Aluminium profiles (Euro 2020)	450mm, X-axis	4	1.6863/ m	3.37	
7		340mm, Y-axis	4	1.6863/ m	2.53	
8		390mm, Z-axis	4	1.6863/ m	2.95	
9	Aluminium profiles (Euro 1010)	467mm, hot bed	2	1.602/m	1.55	
10	Corner Code	2020 / 2028	20	0.18	3.60	
11	Profile nuts	Euro 20 type M4	100	0.02	1.85	
12		Euro 20 type M5	100	0.02	1.85	

13	Stepper motors	2.54MM	5	2.81	14.05	
14	Limit switches	1A125V	4	0.14	0.56	
15	Motor drives	A4988	4	2.53	10.12	
16	Heat sink		5	0.14	0.70	
17	T8 Screws	lead 8-350mm	2	1.52	3.03	
18	Clearance nuts	lead 8mm	2	0.98	1.97	
19	Stepper motor brackets		2	0.56	1.12	
20	Hot bed springs		4	0.11	0.45	
21	Nuts		6	0.06	0.38	
22	Limit Springs	0.5*5*40	2	0.63	1.26	
23	Flexible couplings	5×8 Flexible couplings	2	0.21	0.42	
24	Thermistors		2	0.29	0.58	
25	Synchronous pulleys	2GT 20 teeth 5mm bore and 6mm width	2	1.41	2.81	

26	Timing belts	2GT 6mm 2m/strip	2	1.12	2.25	
27	Idler pulleys	Belt width 6mm 20 teeth bore 5 with teeth	6	1.69	10.12	
28		Belt width 6mm 20 teeth bore 5 without teeth	2	1.41	2.81	
29	Hot bed	200*300	1	9.55	9.55	
30	PE winding pipe	Inner diameter 6mm	1	0.63	0.63	
31	Angle iron		12	0.28	3.37	
32	Hot bed supports	11 gauge thickened straight sheet 40*16*2mm	4	0.08	0.34	
33	Foot pads	20*20*22	4	0.19	0.76	
34	Hexagon socket flat round head screws	M4×6	60	0.01	0.76	
35		M4×8	12	0.01	0.17	
36		M4×12	20	0.02	0.31	
37		M4×16	4	0.02	0.07	
38		M4×22	4	0.02	0.07	
39		M5×8	40	0.02	0.84	
40		M5×25	4	0.02	0.08	

41		M5×45	2	0.04	0.07	
42		M6×10	8	0.04	0.29	
43	Cross bolts	M2×12	6	0.01	0.04	
44		M2.5×8	8	0.01	0.04	
45		M3×8	16	0.01	0.09	
46		M3×10	8	0.01	0.06	
47		M3×14	44	0.01	0.37	
48		M3×40	6	0.01	0.08	
49	Countersunk head screws	M3×16	8	0.01	0.11	
50		M3×30	2	0.01	0.03	
51	Square nuts	M3*5.4*2.4	48	0.03	1.35	
52	Printed parts	PLA, 40% filled, 3 wall thicknesses	1	7.03	7.03	
53	Acrylic panels	6 large ones 7.5mm thick, 8 small ones 2mm thick	1	7.87	7.87	
54	Touch screens	TFT24	1	19.53	19.53	
55	Control panels	Gen L V2.1	1	21.08	21.08	
56	Power supply	12V38A	1	8.15	8.15	190.093 45

1	Visual Identification Module		1	31.61	31.61	31.6125
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1	20KG Single Shaft Servo	Brushless motors are better but more expensive	2	9.13	18.27	
2	35KG Single Shaft Servo	Brushless motors are better but more expensive	1	12.36	12.36	
3	35KG Twin Shaft Servo	Brushless motors are better but more expensive	2	19.67	39.34	
4	Long U-bracket		3	1.48	4.43	
5	Short L-bracket		1	1.26	1.26	
6	Cup bearing		3	2.25	6.74	
7	Deep groove ball bearings		1	1.83	1.83	
8	Core plate	STM32F103C8T6	1	2.28	2.28	
9	Multifunctional bracket		4	1.48	5.90	
10	Metal rudder plate		5	2.25	11.24	

11	Screw nuts		40	0.04	1.40	
12	Swivel base		1	12.36	12.36	
13	Base counterweights		1	67.44	67.44	
14	Base plate		1	4.22	4.22	
15	Mechanical jaws		1	11.24	11.24	200.311 25

1	Pipette gun top cap	FDM abs 50% filled	1	3.93	3.93	
2	Active gear for range adjustment	FDM abs 50% filled	1	4.92	4.92	
3	Two-way cam	FDM abs 50% filled	1	3.51	3.51	
4	35BYJ412 motor mount	FDM abs 50% filled	1	3.51	3.51	
5	ULN2003 stepper motor drive board		1	0.45	0.45	
6	35BYJ412 motor		1	4.22	4.22	
7	Connection fiberglass plate	3mm	1	7.03	7.03	
8	Core board	STM32F103C8T6	1	2.28	2.28	
9	Screws	M3X22	2	0.02	0.04	
10		M3X30	2	0.03	0.06	
11		M3X55	2	0.03	0.06	
12		M4X20	8	0.03	0.22	

13		M4X36	2	0.04	0.08	
14	Nuts	M3	6	0.01	0.08	
15		M4	10	0.02	0.21	
16	Servo connection	FDM abs 50% filled	1	4.92	4.92	
17	Clamping piece for inner pipette gun	FDM abs 50% filled	1	3.51	3.51	
18	Outer pipette gun clamping piece	FDM abs 50% filled	1	3.51	3.51	
19	Inner bottom support	FDM abs 50% filled	1	2.81	2.81	
20	Outer bottom support	FDM abs 50% filled	1	2.81	2.81	
21	DRAGON LAB pipettes		1	34.43	34.43	82.5988
					Total	504.616