

BOM For 6DOF Robot Arm (3D printing)

Sl. No	Name of Stl	Dimensions	Weight of Material (g)	Length of Filament (m)	Material
1	Base	157 x 198 x 88 mm	247	35.26	PLA / ABS
2	Shoulder	156.5 x 127 x 122.5 mm	336	47.91	PLA / ABS
3	Elbow	80 x 107 x 57.6 mm	105	13.27	PLA / ABS
4	ArmBottom	92.5 x 85 x 52 mm	185	23.42	PLA / ABS
5	ArmTop	96 x 80.3 x 149 mm	224	28.29	PLA / ABS
6	End Cap Arm	36 x 36 x 9.8 mm	5	0.69	PLA / ABS
7	ForearmTop	77.7 x 50 x 110 mm	99	12.57	PLA / ABS
8	ForearmBottom	47.5 x 47.4 x 41.0 mm	34	4.31	PLA / ABS
9	wrist	38.8 x 66 x 38 mm	24	3.04	PLA / ABS
10	hand	35 x 41.8 x 14.5 mm	10	1.29	PLA / ABS
11	G1 clampleft	55.1 x 16 x 21.5 mm	9	1.15	PLA / ABS
12	G1 clamright	16 x 55 x 21.5 mm	9	1.19	PLA / ABS
13	G1mainsupport	60 x 44.6 x 30.5 mm	19	2.39	PLA / ABS
14	G1 rod	26.6 x 15.5 x 5.5 mm	1	0.15	PLA / ABS
15	G1 servohead	16 x 19.2 x 7.5 mm	1	0.18	PLA / ABS
16	BaseBearingSupport	127 x 127 x 14 mm	39	4.93	PLA / ABS
17	Drawer	169.7 x 151.9 x 53.5 mm	110	13.96	PLA / ABS
18	Belt tensioner	40 x 42 x 10.5 mm	5	0.68	PLA / ABS
19	ShoulderGearing	61.5 x 61.5 x 14 mm	24	3.06	PLA / ABS
20	Round tube	16 x 16 x 16.5 mm	3	0.37	PLA / ABS
21	endcap shoulder	36 x 36 x 13 mm	6	0.78	PLA / ABS
22	Air routing	73 x 36.5 x 9.7 mm	13	1.61	PLA / ABS
23	foot	40 x 40 x 5.5 mm	5	0.6	PLA / ABS
24	assembly tool 1	29.6 x 86.9 x 8.5 mm	6	0.82	PLA / ABS
25	assembly tool 2	35.2 x 57.8 x 8 mm	3	0.35	PLA / ABS
26	Plastic tool	42.2 x 79.5 x 14.8 mm	7	0.87	PLA / ABS
		Total weight	1529		