

Serial No.	Item Name	Cost	Quantity	Link	Purpose	Total Cost
1	Duet 3 Mini 5+ Wifi	12,730	2	https://www.tinkey.io/products/duet-3-mini-5-wifi/	Main Controller board for movement	25460
2	Nema 17	649	4	https://robu.in/products/nema-17-stepper-motor-1-8-step-1-7m-n2017/	Additional Steppers for New axis control	2596
3	Duet Expansion Board	8,350	2	https://www.tinkey.io/products/duet-expansion-board/	Used for tuning with encoder	16700
4	Encoder AS5600	260	2	https://robokits.co.uk/products/as5600-digital-absolute-encoder/	Used to detect if there is a blockage, unus	520
5	Display 12864	1,500	1	https://superbtec.com/products/12864-rgb-oled-display-module/	Used for interaction with user	1500
6	3D Printer	30,000	1	Ender-3 V2 Neo	Base 3D printer to start off	30000
7	Esp32	389	4	https://robu.in/products/esp32-dev-board/	Used for connecting Spresense with Interr	1556
8	Closed Loop Step Motor	2,560	2	https://robu.in/products/stepper-motor-28byj-48/	Used for close loop control of X and Y axis	5120
9	Sony Spresense with LTE extension	0	2	https://www.adafruit.com/product/4444	Process Monitoring and Control	0
10	Sony 5Mp Camera	0	1	https://www.adafruit.com/product/4444	Remote Monitoring	0
11	IR Imager	5750	1	https://thinkrobotics.com/products/ir-imager/	For Monitoring temperature of Nozzle	5750
12	Timing Pulley Belt	89	3	https://robu.in/products/timing-belt-2m-1-6mm-tooth-width/	For Movement	267
13	Pulley	43	3	https://robu.in/products/pulley-20mm-outer-diameter-2mm-bore-diameter/	For Movement	129
14	PLA Filament	999	2	https://robu.in/products/pla-filament-1-75mm-diameter-1kg/	For Test Prints	1998
15	Aluminium Extrusion	192	6	https://robu.in/products/aluminium-extrusion-20mm-x-20mm-1m-length/	For Building the body of 3d printer	1152
16	Linear Guide Rail	1,549	3	https://robu.in/products/linear-guide-rail-20mm-x-300mm/	For Movement	4647
17	LM bearing	39	3	https://robu.in/products/lm-bearing-8mm-outer-diameter-6mm-bore-diameter/	For Movement	117
18	Nut-Bolt Set M4	59	1	https://robu.in/products/m4-nut-bolt-set-10-pieces/	Misc	59
19	Nut-Bolt Set M3	59	1	https://robu.in/products/m3-nut-bolt-set-10-pieces/	Misc	59
20	Nut-Bolt Set M5	59	1	https://robu.in/products/m5-nut-bolt-set-10-pieces/	Misc	59
21	M5 T Nut	149	1	https://robu.in/products/m5-t-nut-10-pieces/	Misc	149
22	RPi 4	7199	1	https://robu.in/products/raspberry-pi-4-b-1gb/	For Communication	7199
23	Wires 0.5 Sq.mm	838	1	https://www.industrybuyers.com/wires/0-5-sq-mm-wires	Misc	838
24	Jumper Wires	56	1	https://robu.in/products/jumper-wires-20-pieces/	Misc	56
25	Jumper Wires	39	1	https://robu.in/products/jumper-wires-20-pieces/	Misc	39
26	Jumper Wires	75	1	https://robu.in/products/jumper-wires-20-pieces/	Misc	75
27	Jumper Wires	39	2	https://robu.in/products/jumper-wires-20-pieces/	Misc	78
28	Jumper Wires	55	2	https://robu.in/products/jumper-wires-20-pieces/	Misc	110
29	Jumper Wires	39	1	https://robu.in/products/jumper-wires-20-pieces/	Misc	39
30	Wire Cutter	299	1	https://robu.in/products/wire-cutter-10-pieces/	Misc	299
31	Soldering Station	4590	1	https://www.industrybuyers.com/soldering-station	Misc	4590
32	Solder	850	1	https://robu.in/products/solder-1kg/	Misc	850
33	Desoldering pump	229	1	https://robu.in/products/desoldering-pump-10-pieces/	Misc	229
34	Breadboard	76	3	https://robu.in/products/breadboard-10-pieces/	Misc	228
35	Screw Driver Set	1999	1	https://www.ama.com/	Misc	1999
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