


Bill of material Mechanical

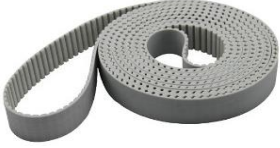
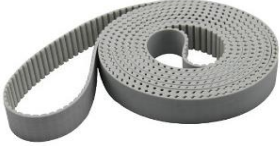





S.No	Description	Specification	Quantity	Image	Description Link
1	Pillow Bearing (For 8 mm shaft)	KFL08	2		https://amzn.to/3gKr3up
2	Linear bearing Block with Bearing	SC16UU Linear bearing SCS16UU L.B with bearing block	12		https://amzn.to/3jDsaOL
3	Ball screw Nut Housing	SFU1204	2		https://amzn.to/2DbsxQX
4	Ball screw with Nut (12mm)	1204	2		https://amzn.to/2EGksnD
	Aluminium Flexible spider coupling	10X6.5	2		https://amzn.to/3b9X9yP
5	Linear rail shaft (16X1000)	OD 16mm	6		https://amzn.to/3luUrsp
6	Fully supported linear rail shaft (16X1000)	SBR16	2		https://amzn.to/3baBne6

7	Fully supported linear rail shaft (16X500)	SBR16	2		https://amzn.to/31JitrR
8	Linear rail (Shaft) Support	SHF16 (for 16mm shaft)	12		https://amzn.to/31J14Q7
9	Pillow Bearing (10mm Shaft)	KFL000	2		https://amzn.to/2ELIkpY
10	Square Pipe (100X100)	M.S	2		Local Hardware Shop
11	Square Plate (200X200)	M.S	4		Local Hardware Shop
12	Square pipe (50X50)	M.S (900 mm)	4		Local Hardware Shop
13	Square pipe (50X50)	M.S (500 mm)	2		Local Hardware Shop

14	Square pipe (50X50)	MS. (150 mm)	4		Local Hardware Shop
15	Allen screw	M8X15	28		Local Hardware Shop
16	Allen screw	M5X30	2		Local Hardware Shop
17	Allen screw	M5X10	86		Local Hardware Shop
18	Allen screw	M5X15	46		Local Hardware Shop
19	Allen screw	M4X40	40		Local Hardware Shop
20	Counter screw	M5X20	40		Local Hardware Shop

21	Allen screw	M5X20	26		Local Hardware Shop
22	Grub screw	M8X30	2		Local Hardware Shop
23	Aluminum plate for X axis (12X90X195)		2		Local Hardware Shop
24	Aluminum plate top and bottom	100X90.20X12	2		Local Hardware Shop
25	Aluminum Plate	(600X400X6)	1		Local Hardware Shop
26	Stainless steel Sheet (18 Gauge)	S. S (1100X100)	2		Local Hardware Shop
27	Stainless steel Sheet (18 Gauge)	S. S (1100X150)	2		Local Hardware Shop

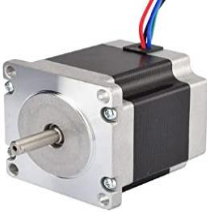



28	Stainless steel Sheet (18 Gauge)	S. S (1100X200)	1		Local Hardware Shop
29	L angle bracket (50X50X100)	M.S	8		Local Hardware Shop
30	Sheet (2.5mm)	M.S (1000X500)	1		Local Hardware Shop
31	Motor mounting Bracket	M.S (75X75)	4		
32	Grub screw	M5X10	8		Local Hardware Shop
33	Timing pulley (Bore 6.35)	28T-5M	2		https://amzn.to/31J1iqg
34	Timing pulley with bearing (628ZZ)	28T-5M	2		https://amzn.to/3hJ7tjP

35	Timing Belt for X axis	5M (1000mm)	1		https://amzn.to/31JUxEQ
36	Timing Belt for Y axis	5M (2000mm)	1		https://amzn.to/31JUxEQ
37	Toughened glass	6mm	1		Local Hardware Shop
3 in 1 CNC Stand					
1	L Angle (50X50)	L= 1012mm	2		Local Hardware Shop
2	L Angle (50X50)	L= 512mm	2		Local Hardware Shop
3	L Angle (50X50)	L= 100mm	4		Local Hardware Shop
4	Square Pipe (40X40)	L= 600mm	4		Local Hardware Shop





5	Square Pipe (40X40)	L= 518mm	2		Local Hardware Shop
6	Square Pipe (40X40)	L= 832mm	2		Local Hardware Shop
7	Hex Bolt	M16X80	4		Local Hardware Shop
8	Swivel top Caster wheel	100	4		https://amzn.to/2ETpeOU
9	Nut	M16	4		Local Hardware Shop
10	Paint 500 ML	Enamel Black	1		Local Hardware Shop
11	Paint 500 ML	Enamel Orange	1		Local Hardware Shop

12	Terpentine oil 1 liter	N.A	1		Local Hardware Shop
13	Paint brush	2"	2		Local Hardware Shop

Bill of material Electrical







1	Nema 23 motor (1.1 Nm)	Model No - 57HS51254	2		https://amzn.to/2Di4glY
2	Nema 23 motor	Model No - 23HS7628S	2		https://amzn.to/2QEuxEf
3	Duet wifi	Duet 2 Wifi V1.04	1		https://amzn.to/2QEFSnT
4	Duet Touch screen	PanelDue 5i	1		https://amzn.to/3hQnaWw




5	Limit switch		3		https://amzn.to/3hW5RTC
6	3D Touch Auto Bed Leveling Sensor		1		https://amzn.to/3hEVFip
7	Bed Mosfet	24V	2		https://amzn.to/2QDYPHt
8	Heater bed (400X400)	24V	6		https://amzn.to/3gM4dml
9	Blue Laser Module	15W, 450nm Laser Head	1		https://amzn.to/3lyM1jA
10	Cooling fan (80X80)		4		https://amzn.to/2G5UEIs
11	Cooling fan (50X50)		1		https://amzn.to/2G5UEIs

12	Hotend Extruder	V6- J head	1		https://amzn.to/34OGJuD
13	J head Nozzle (0.2,0.3,0.4,0.5mm)	M6	4		https://amzn.to/2QHnwmk
14	Extruder 3d printer with nema 17 Motor	E3D V6 Hotend J- head	1		https://amzn.to/3gKhI62
15	Extruder motor cooling fan (40X40)		4		https://amzn.to/31IMojN
16	Cooling fan (100X100)		1		https://amzn.to/31JWkK4
17	DC-DC buk converter 12V		1		https://amzn.to/3gEpCxK
18	Filament sensor		1		https://amzn.to/2Gf3mxZ

Electrical Wiring

1	Rocker switch	30A	2		https://amzn.to/3jq2qoA
2	Round Rocker switch	15A	3		https://amzn.to/2QEJExB
3	Toggle switch	15A	5		https://amzn.to/351uY4b
4	Supply 12V	40A	2		https://amzn.to/2QEHIcl
5	Supply 24V	7A	1		https://amzn.to/2YQIByX
6	Mean well power Supply 350W 24V 14.6A	NES-350-24			https://amzn.to/3hIHTLC

7	Uninyvin cable		10 Mtr		Local Hardware Shop
8	PVC cable marking Ferruls 2mm	all Letters	1 pack		Local Hardware Shop
9	Spade insulated terminal	2mm	30		https://amzn.to/3gJ767m
10	Eye insulated terminal	2mm	30		https://amzn.to/3gJ767m
11	cable tie	(100 & 150 mm)	1 pack		https://amzn.to/3baLH61
12	Shrink sleeve	(2,3,4,5,6mm)	2 Mtr		https://amzn.to/31Hc404
13	4 core wire		10 Mtr		Local Hardware Shop

14	12 core wire (To connect all Sensors)	(For Laser,BL touch, Filament sensor and fan)	3 Mtr		Local Hardware Shop
15	Thermistor	NTC 640-10K	1		Local Hardware Shop
16	Single strand wire		16Mtr		Local Hardware Shop

