

Aluminum extrusions			
Pcs	Extrusion size	Length	Sourcing
2	20x40mm	1000mm	Best to source locally
2	20x40mm	600mm	
1	20x80mm	670mm	
1	20x20mm	600mm	
2	20x20mm	95mm	
2	20x20mm	120mm	

Stepper motors & Belts, pulleys			
Pcs	Type	Model	Sourcing
2	Nema 23 - 76mm	23HE30-2804S	Stepper Online
2	Nema 17 - 48mm	17HE19-2004S	Stepper Online
1	Pulley GT2 60T	GT2 60T 6mm (8mm bore)	AliExpress
1	Pulley GT2 20T	GT2 20T 6mm (5mm bore)	
1	Synchronous belt GT2	GT2 6mm - 200mm	
2	Pulley T5 14T	T5 14T 15mm (6.35mm bore)	AliExpress
2	Pulley T5 14T	T5 14T 15mm (10mm bore)	AliExpress
2	Synchronous belt T5	T5 15mm - 200mm	AliExpress
1	Motor coupler	D19xL25 - 5mm - 8mm	AliExpress

Linear rails & Ballscrews, leadscrew			
Pcs	Type	Model	Sourcing
2	Linear rail	HGR 15 - 1000mm	AliExpress
4	Linear rail block	HGH15CA	
2	Linear rail	MGN12 - 650mm	AliExpress
2	Linear rail block	MGN12H	
2	Linear rail	MGN9 - 200mm	AliExpress
4	Linear rail block	MGN9C	
2	Ballscrew	SFU1605 - 1000mm	AliExpress
2	Ball nut housing	DSG16H	
2	Ballscrew housing	BK12	
2	Ballscrew housing	BF12	
1	Ballscrew	SFU1204 - 650mm	AliExpress
1	Ball nut housing	DSG12H	
1	Ballscrew housing	BK10	
1	Ballscrew housing	BF10	
1	Leadscrew - 2mm lead	T8 - 200mm	AliExpress
1	Flat leadscrew nut	T8 nut	AliExpress
1	Leadscrew housing	KFL08 8mm	AliExpress
1	Bearing	608ZZ	AliExpress

Connectors & Wiring			
Pcs	Type	Model	Sourcing
4	Connector	GX12-4	AliExpress
5	Connector	GX12-2	AliExpress
1	Connector	GX20-4	AliExpress
1	Power socket	AC-04B	AliExpress

2	Cable chain	10x20mm - 1m	AliExpress
4	Micro limit switch	KW11-3Z-B	AliExpress
1	Spindle cable	4x1mm ² (AWG20) - 3m	Best to source locally
1	Stepper motor cables	4x0.5mm ² (AWG24) - 10m	
1	Limit switch cables	3x0.25mm ² (AWG30) - 10m	

Electronics			
Pcs	Type	Model	Sourcing
1	Spindle motor	VEVOR 800W - ER11	AliExpress
1	VFD 1.5kW	A2-8015	AliExpress
1	PSU 600W 48V	LRS-600-48	AliExpress
3	PCK Controller fan	3010 - 12V	AliExpress
1	Electronics fan	7015 - 12V	AliExpress
1	Emergency button	XB2-542	AliExpress
3	Button (Red,Green,Blue)	19mm - 3-6V	AliExpress
1	Contactor 230V 16A	230V 16A - 2NO	AliExpress

Bolts & Nuts			
Pcs	Size	Type	Sourcing
8	M2.5x16mm	Flat head (Phillips)	Best to source locally
100	M3x5mm	Pan head (Phillips)	
106	M3x8mm	Flat head (Phillips)	
28	M3x8mm	Socket head (Hex slot)	
25	M3x10mm	Flat head (Phillips)	
14	M3x10mm	Socket head (Hex slot)	
15	M3x16mm	Flat head (Phillips)	
12	M3x25mm	Flat head (Phillips)	
18	M4x8mm	Socket head (Hex slot)	
16	M4x10mm	Flat head (Phillips)	
26	M4x10mm	Socket head (Hex slot)	
74	M4x12mm	Socket head (Hex slot)	
22	M4x16mm	Socket head (Hex slot)	
2	M4x20mm	Flat head (Phillips)	
18	M4x40mm	Socket head (Hex slot)	
6	M5x8mm	Flat head (Phillips)	
14	M5x10mm	Flat head (Phillips)	
12	M5x16mm	Socket head (Hex slot)	
12	M5x20mm	Socket head (Hex slot)	
8	M5x25mm	Socket head (Hex slot)	
20	M5x50mm	Socket head (Hex slot)	
4	M6x70mm	Socket head (Hex slot)	
12	M4 Nut	Standart	
24	M5 Nut	Standart	
4	M6 Nut	Standart	
64	M4 T-Slot nut	20mm Series	AliExpress
130	M3 T-Slot nut	20mm Series	AliExpress
8	M4 Insert	Length - 5mm	AliExpress
42	M3 Insert	Length - 5mm	AliExpress

Mechanical parts			
Pcs	File name	Material	Manufacturing
2	Acrylic sheet REAR	Acrylic	Laser/Milling
4	Acrylic sheet SIDE	Acrylic	Laser/Milling
2	Base mount FRONT	Aluminum	Laser/Milling
2	Base mount rear	Aluminum	Laser/Milling
1	Spindle mount plate	Aluminum	Milling
1	X Axis plate LEFT	Aluminum	Milling
1	X Axis plate RIGHT	Aluminum	Milling
1	Z Axis back plate	Aluminum	Milling
1	Z Axis plate	Aluminum	Milling
1	Base mount FRONT L	PETG	3D Printing
1	Base mount FRONT R	PETG	3D Printing
4	Base mount nut cap	PLA, PETG	3D Printing
6	Base support	PETG	3D Printing
1	Cable cover	PLA, PETG	3D Printing
1	Control panel label	PLA, PETG	3D Printing
9	Electronics panel connector A	PLA, PETG	3D Printing
7	Electronics panel connector B	PLA, PETG	3D Printing
1	Electronics panel connector C	PLA, PETG	3D Printing
16	Electronics panel corner connector	PLA, PETG	3D Printing
1	Electronics panel FRONT L	PLA, PETG	3D Printing
1	Electronics panel FRONT M	PLA, PETG	3D Printing
1	Electronics panel FRONT R	PLA, PETG	3D Printing
1	Electronics panel LEFT	PLA, PETG	3D Printing
1	Electronics panel REAR L	PLA, PETG	3D Printing
1	Electronics panel REAR R	PLA, PETG	3D Printing
1	Electronics panel RIGHT	PLA, PETG	3D Printing
1	Electronics panel TOP L	PLA, PETG	3D Printing
1	Electronics panel TOP M	PLA, PETG	3D Printing
1	Electronics panel TOP R	PLA, PETG	3D Printing
4	Frame corner connector	PETG	3D Printing
1	PCK CNC Controller mount	PLA, PETG	3D Printing
1	PSU Mounting plate A	PLA, PETG	3D Printing
1	PSU Mounting plate B	PLA, PETG	3D Printing
1	PSu Mounting plate BOT	PLA, PETG	3D Printing
1	Spindle mount	PETG	3D Printing
1	X Axis ballscrew mount LEFT	PETG	3D Printing
1	X Axis ballscrew mount RIGHT	PETG	3D Printing
1	X Axis cable chain mount	PLA, PETG	3D Printing
1	X Axis cable chain support	PLA, PETG	3D Printing
1	X Axis end stop mount	PLA, PETG	3D Printing
1	X Axis linear rail mount	PETG	3D Printing
1	X Axis motor mount	PETG	3D Printing
1	Y Axis cable chain mount B	PLA, PETG	3D Printing
1	Y Axis cable chain mount F	PLA, PETG	3D Printing
3	Y Axis cable chain support	PLA, PETG	3D Printing

1	Y Axis end stop mount LEFT	PLA, PETG	3D Printing
1	Y Axis end stop mount RIGHT	PLA, PETG	3D Printing
1	Y Axis linear rail mount LEFT	PETG	3D Printing
1	Y Axis linear rail mount RIGHT	PETG	3D Printing
1	Y Axis motor mount LEFT	PETG	3D Printing
1	Y Axis motor mount RIGHT	PETG	3D Printing
1	Z Axis cover	PLA, PETG	3D Printing
1	Z Axis endstop mount	PLA, PETG	3D Printing
1	Z Axis leadscrew bearing mount TOP	PETG	3D Printing
1	Z Axis leadscrew bearing mount	PETG	3D Printing
1	Z Axis linear rails mount	PETG	3D Printing
1	Z Axis motor holder	PETG	3D Printing

MDF Boards			
Pcs	File name	Size	Sourcing
1	MDF Base board	1125x640x20mm	Best to source locally
1	MDF Spoil board	760x490x18mm	