Category	Component	Standard	QTY	Note	Recommended	Alternative 1	Alternative 2	Alternative 3
Filament	Primary Color ABS/ASA		2		Esun ABS+			
Filament	Accent Color ABS/ASA		1		Esun ABS+			
Filament	Primary color TPU		1	For TPU feet (optional)	Eryone TPU			
Printed parts	Printed parts		1					
Fasteners	M5x30 BHCS	ISO 7380-1	4	For TPU feet (optional)	ACCU			
Fasteners	M5x16 BHCS	ISO 7380-1	6		ACCU			
Fasteners	M5x12 BHCS	ISO 7380-1	131		ACCU			
Fasteners	M5x10 BHCS	ISO 7380-1	6		ACCU			
Fasteners	M5x8 BHCS	ISO 7380-1	45		ACCU			
Fasteners	M4x10 BHCS	ISO 7380-1	4		ACCU			
Fasteners	M5x100 SHCS	ISO 4762 / DIN 912	4		ACCU			
Fasteners	M5x30 SHCS	ISO 4762 / DIN 912	4		ACCU			
Fasteners	M5x25 SHCS	ISO 4762 / DIN 912	2		ACCU			
Fasteners	M5x20 SHCS	ISO 4762 / DIN 912	8		ACCU			
Fasteners	M3x20 SHCS	ISO 4762 / DIN 912	4		ACCU			
Fasteners	M3x10 SHCS	ISO 4762 / DIN 912	46		ACCU			
Fasteners	M3x8 SHCS	ISO 4762 / DIN 912	12		ACCU			
Fasteners	M3x5 SHCS	ISO 4762 / DIN 912	28		ACCU			
Fasteners	M2.5x8 SHCS	ISO 4762 / DIN 912	6		ACCU			
Fasteners	M3x6 FHCS	ISO 10642	17		ACCU			
Fasteners	M3 Washer	ISO 7089 / DIN 125	4		ACCU			
Fasteners	M5 Washer	ISO 7089 / DIN 125	12		ACCU			
Fasteners	M5 Heated insert		27		CNC Kitchen	Mouser		
Fasteners	M3 Heated insert		33		CNC Kitchen	Mouser		
Fasteners	M2.5 Heated insert		6		CNC Kitchen			
Fasteners	M5 Nyloc Hexnut	ISO 10511 / DIN 985	8		ACCU			
Fasteners	M3x6 self tapping screw for plastics		8		ACCU			
Fasteners	M3x10 Grub Screw	ISO 4026 / DIN 913	4		ACCU			
Fasteners	M5 Spring T-Nut		90		Amazon			
Fasteners	M3 Spring T-Nut		36		Amazon			
Fasteners	Fan screws	Mechatronics fan group CS-1	8		Amazon	ACCU		
Frame (main)	Openbuilds 4080x470mm C-Beam profile extrusion		1		Ooznest			
Frame (main)	Openbuilds 4080x260mm C-Beam profile extrusion		2		Ooznest			
Frame (main)	Openbuilds 4080x120mm C-Beam profile extrusion		1		Ooznest			
Frame (main)	Openbuilds 4080x250mm C-Beam profile extrusion		1		Ooznest			
Frame (main)	Openbuilds 4080x500mm C-Beam profile extrusion		1		Ooznest			
Frame (main)	Openbuilds 2040x500mm extrusion		2		Ooznest			
Frame (electronics table)	Openbuilds 2080x550mm extrusion		3		Ooznest			
Frame (electronics table)	Openbuilds 2040x580mm extrusion		2		Ooznest			
Frame (electronics table)	Openbuilds 2020x200mm extrusion		1		Ooznest			
Frame (electronics table)	Angled corner connector 2020		12		Aliexpress			
Electronics (main)	Nema 23 motor 23HP22-2804S / 2303HS200AW / LDO-57STH56-2804AC		3		Ooznest			
Electronics (main)	Omron SS-5GL micro switch		3		Digikey			
Electronics (electronics table)	Mean Well LRS-350-24 PSU		1		Digikey	Amazon	Aliexpress	
Electronics (electronics table)	IEC320 C14 Inlet - Push-fit - w/ Rocker Switch & Fuse		1		Digikey			
Electronics (electronics table)	40x40 24V axial fan		2		Amazon			
Electronics (electronics table)	Micro SD card		1		Amazon			
Electronics (electronics table)	Mellow fly e3 / mellow fly CDY V3.0 / BTT E3 RRF		1		Fly CDY	Fly E3	BTT E3 RRF	
Electronics (electronics table)	22mm E-stop switch actuator		1		Amazon			
Electronics (electronics table)	TMC 2209 (2A RMS) TMC 5160 (3A RMS) TMC 2660 (2.4A RMS) DRV 8825 (2.5A)		3	(use drivers that are suitable for your motors needs i.e match your motor's phase current to your driver's max RMS current)	TMC 2209	TMC 5160	TMC2660	DRV8825
Motion (main)	XY gantry plate		1	(Can be printed)	Fabreeko			
Motion (main)	Z gantry plate		1	(Can be printed)	Fabreeko			
Motion (main)	200mm GT2 closed loop belt		1		Aliexpress			
Motion (main)	MGN15 rail 350mm		2		CNA			
Motion (main)	MGN15 rail 250mm		2		(Don't mix/match suppliers)			
Motion (main)	MGN15 rail 500mm		2					
Motion (main)	MGN15C rail carriage		12					
Motion (main)	TR8x8 4 start leadscrew 550mm (min)		1		Aliexpress			
Motion (main)	TR8x8 4 start leadscrew 550mm (min)		1		Aliexpress			
Motion (main)	TR8x8 4 start leadscrew 300mm (min)		1		Aliexpress			
Motion (main)	TR8x8 4 start brass leadscrew nut		6		Amazon			
Motion (main)	GT2 20T (6mm wide) Pulley (6.35mm(1/4 inch) bore)		1		Ooznest			
Motion (main)	GT2 40T (6mm wide) Pulley (8mm bore)		1		Amazon			
Motion (main)	608 2Z shielded deep groove ball bearing		8		Aliexpress			
Motion (main)	F608 2Z shielded deep groove ball bearing		4		Aliexpress			
Motion (main)	Spider or rigid coupler 8mm to 6.35mm (1/4 inch)		2		Aliexpress			
Motion (main)	8mm Bore locking colar		6		ACCU			
Panel (electronics Table)	Acrylic Eclosure bottom panel		1					
Cables (main)	10x11 Cable Chain - Openable (1m)		3		FYSETC			
Cables (main)	Nylon Cable Ties (less than 5mm wide)		100		Amazon			
Cables (main)	18AWG* (min) Mains wiring (neutral, line, ground)		1	(*consult your local guidelines for regulation wiring size)				
Cables (main)	20AWG Silicone or PTFE Cable (25ft total)		1					
Cables (main)	24AWG PTFE Cable (50ft total)		1					
Cables (main)	Fork Spade Terminal	JST-FVDDF	15		Amazon			
Cables (main)	Insulated Crimp Receptical	JST-FVDDF	10		Amazon			
Cables (main)	Ferrule CableTerminations		N/A	(size and use where appropriate)	Amazon			
Cables (main)	JST Connector 2 Position	JST-XH	3		Amazon			
Cables (main)	JST Connector 4 Position	JST-XH	3		Amazon			
Misc	Epoxy Resin 1L		1	(optional)				
Misc	Granite Sand		1	(optional)				
Spindle	1.5kw spindle 65mm		1		Aliexpress			