Category	Component	Standard QTY	Y Note	Recommended	Alternative 1	Alternative 2	Alternative 3					
Filament	Primary Color ABS/ASA		2									
Filament Filament	Accent Color ABS/ASA Primary color TPU		1 For TPU feet (cotional)	Esun ABS+ Envone TPU								
Printed parts	Printed parts		(optional)	<u>Lifone ii o</u>								
	M5x30 BHCS	ISO 7380-1	4 For TPU feet (cotional)	ACCU								
Fasteners	M5x16 BHCS	ISO 7380-1	6	ACCU								
	M5x12 BHCS	ISO 7380-1 13		ACCU								
Fasteners Fasteners	M5x10 BHCS M5x8 BHCS	ISO 7380-1 (6	ACCU								
	M4x10 BHCS	ISO 7380-1	4	ACCU ACCU								
Fasteners	M5x100 SHCS	ISO 4762 / DIN 912	4	ACCU								
	M5x30 SHCS	ISO 4762 / DIN 912	4	ACCU ACCU ACCU								
	M5x25 SHCS M5x20 SHCS	ISO 4762 / DIN 912 ISO 4762 / DIN 912	2	ACCU ACCU								
Fasteners	M3x20 SHCS		4	ACCU								
	M3x10 SHCS	ISO 4762 / DIN 912 46		ACCU ACCU ACCU ACCU ACCU ACCU ACCU ACCU								
	M3x8 SHCS M3x5 SHCS	ISO 4762 / DIN 912 12 ISO 4762 / DIN 912 20		ACCU								
	M2.5x12 SHCS	ISO 4762 / DIN 912 (ACCU								
Fasteners	M3x6 FHCS	ISO 10642 1		ACCU								
		ISO 7089 / DIN 125		ACCU								
	M5 Washer M5 Heated insert	ISO 7089 / DIN 125 12	_	ACCU	Marrian							
	M3 Heated insert	33		CNC Kitchen	Mouser Mouser							
Fasteners	M2.5 Heated insert		6	CNC Kitchen								
	M5 Nyloc Hexnut	ISO 10511 / DIN 985	8	CNC Kitchen ACCU ACCU ACCU								
	M3x6 self tapping screw for plastics M3x10 Grub Screw	ISO 4026 / DIN 913	8	ACCU								
	M3x10 Grub Screw M5 Spring T-Nut	133 4020 / DIN 913 4	0	Amazon								
	M3 Spring T-Nut	31	6	Amazon Amazon								
Fasteners	Fan screws	Mechatronics fan group CS-1	8	Amazon	ACCU							
Frame (main)	Openbuilds 4080x470mm C-Beam profile extrusion	ian group CS-1	1	Amazon Ooznest								
Frame (main)	Openbuilds 4080x260mm C-Beam profile extrusion		2	Ooznest								
	Openbuilds 4080x120mm C-Beam profile extrusion		1	Ooznest								
	Openbuilds 4080x250mm C-Beam profile extrusion Openbuilds 4080x500mm C-Beam profile extrusion		1	<u>Ooznest</u>								
Frame (main)	Openbuilds 4080x500mm C-Beam profile extrusion Openbuilds 2040x500mm extrusion		2	Ooznest Ooznest								
	Openbuilds 2080x550mm extrusion		3	Ooznest								
	Openbuilds 2040x580mm extrusion	:	2	<u>Ooznest</u>								
	Openbuilds 2020x200mm extrusion Angled corner connector 2020		1	Ooznest								
Electronics (main)	Nema 23 motor 23HP22-2804S / 2303HS200AW /		3	Aliexpress Ooznest								
	LDO-57STH56-2804AC		<u> </u>									
Electronics (main) Electronics (electronics table)	Omron SS-5GL micro switch		3	Digikey	A	Aliovarona						
	IEC320 C14 Inlet - Push-fit - w/ Rocker Switch & Fuse		1	Digikey Digikey	CHIBZUII	Aliexpress						
Electronics (electronics table)	40x40 24V axial fan	:	2	Amazon								
Electronics (electronics table)			1	Amazon	E1 E0	DTT 50 DD5						
Electronics (electronics table)	Mellow fly e3 / mellow fly CDY V3.0 / BTT E3 RRF		1	Fly CDY Amazon	FIV ES	BTT E3 RRF						
Electronics (electronics table)	TMC 2209 (2A RMS)		3 (use drivers that are suitable for your motors needs	TMC 2209	TMC 5160	TMC2660	DRV8825					
	TMC 5160 (3A RMS) TMC 2660 (2.4A RMS)		3 (use drivers that are suitable for your motors needs i.e match your motor's phase current to your driver's max RMS									
	DRV 8825 (2.5A)		current)									
	XY gantry plate Z gantry plate		1 (Can be printed) 1 (Can be printed)	Fabreeko Fabreeko								
Motion (main)	200mm GT2 closed loop belt		1	Aliexpress								
	MGN15 rail 350mm		2	CNA								
	MGN15 rail 250mm MGN15 rail 500mm		2	(Don't mix/match suppliers)								
Motion (main)	MGN15C rail carriage	11	2	suppliers)								
Motion (main)	TR8x8 4 start leadscrew 550mm (min)		1	Aliexpress								
	TR8x8 4 start leadscrew 550mm (min) TR8x8 4 start leadscrew 300mm (min)		1	Allexpress								
	TR8x8 4 start leadscrew 300mm (min) TR8x8 4 start brass leadscrew nut		6	Aliexpress Amazon								
Motion (main)	GT2 20T (6mm wide) Pulley (6.35mm(1/4 inch) bore)		1	<u>Ooznest</u>								
	GT2 40T (6mm wide) Pulley (8mm bore)		1	Amazon								
	608 2Z shielded deep groove ball bearing	1	8	Aliexpress								
	F608 2Z shielded deep groove ball bearing Spider or rigid coupler 8mm to 6.35mm (1/4 inch)		2	Aliexpress Aliexpress								
Motion (main)	8mm Bore locking colar		6	ACCU								
	Acrylic Eclosure bottom panel		1									
	10x11 Cable Chain - Openable (1m) Nylon Cable Ties (less than 5mm wide)	10		FYSETC Amazon								
	18AWG* (min) Mains wiring (neutral, line, ground)		1 (*consult your local guidelines for regulation wiring size)	Alliazoli								
	20AWG Silicone or PTFE Cable (25ft total)		regulation wiring size)									
Cables (main)	24AWG PTFE Cable (50ft total)		1									
	Fork Spade Terminal	JST-FVDDF 15		Amazon								
	Insulated Crimp Receptical Ferrule CableTerminations	JST-FVDDF 10 N/A		Amazon Amazon								
	JST Connector 2 Position		3	Amazon Amazon								
	JST Connector 4 Position		3	Amazon								
Misc	Epoxy Resin 1L		1 (optional)									
Misc Spindle	Granite Sand		1 (optional)	Allerman								
Shinnie	1.5kw spindle 65mm		1	MILEXPRESS								