Category	Component	Standard QTY	Note	Recommended	Alternative 1	Alternative 2	ve 2 Alternative 3	
Filament	Primary Color ABS/ASA	2	2					
Filament	Accent Color ABS/ASA	1	1					
Filament	Primary color TPU	1	1 For TPU feet (optional)	Eryone TPU				
Printed parts	Printed parts	1	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	1	ACCU ACCU				
Fasteners	M5x10 BHCS	ISO 7380-1 6		ACCU				
Fasteners	M5x8 BHCS	ISO 7380-1 45	5	ACCU				
Fasteners Fasteners	M4x10 BHCS M5x100 SHCS	ISO 7380-1 4 ISO 4762 / DIN 912 4	1	ACCU ACCU				
Fasteners	M5x30 SHCS	ISO 4762 / DIN 912 4	1	ACCU ACCU				
Fasteners	M5x25 SHCS	ISO 4762 / DIN 912		ACCU				
Fasteners	M5x20 SHCS	ISO 4762 / DIN 912		ACCU				
Fasteners	M3x20 SHCS	ISO 4762 / DIN 912 4	1	ACCU ACCU ACCU				
Fasteners	M3x10 SHCS	ISO 4762 / DIN 912 46		ACCU				
Fasteners	M3x8 SHCS	ISO 4762 / DIN 912 12		ACCU ACCU ACCU ACCU				
Fasteners	M3x5 SHCS	ISO 4762 / DIN 912 28		ACCU				
Fasteners	M2.5x8 SHCS	ISO 4762 / DIN 912		ACCU				
Fasteners	M3x6 FHCS M3 Washer	ISO 10642 17		ACCU				
Fasteners Fasteners	M5 Washer	ISO 7089 / DIN 125 4		ACCU ACCU				
Fasteners	M5 Heated insert	150 7009 7 DIN 125 12		CNC Kitchen	Mouser			
Fasteners	M3 Heated insert	33	3	CNC Kitchen	Mouser			
Fasteners	M2.5 Heated insert			CNC Kitchen				
Fasteners	M5 Nyloc Hexnut	ISO 10511 / DIN 985	3	ACCU				
Fasteners	M3x6 self tapping screw for plastics	8	3	ACCU				
Fasteners	M3x10 Grub Screw	ISO 4026 / DIN 913 4	1	CNC Kitchen ACCU ACCU ACCU ACCU Amazon Amazon				
Fasteners	M5 Spring T-Nut	90		Amazon				
Fasteners	M3 Spring T-Nut	36		Amazon	4000			
Fasteners	Fan screws	Mechatronics 8 fan group CS-1		Amazon	ACCU			
Frame (main)	Openbuilds 4080x470mm C-Beam profile extrusion	1	1	Ooznest				
Frame (main)	Openbuilds 4080x260mm C-Beam profile extrusion	2	2	<u>Ooznest</u>				
Frame (main)	Openbuilds 4080x120mm C-Beam profile extrusion	1	1	Ooznest				
Frame (main)	Openbuilds 4080x250mm C-Beam profile extrusion	1	1	Ooznest				
Frame (main)	Openbuilds 4080x500mm C-Beam profile extrusion Openbuilds 2040x500mm extrusion			Ooznest				
Frame (main)	Openbuilds 2040x500mm extrusion Openbuilds 2080x550mm extrusion		2	<u>Ooznest</u>				
Frame (electronics table) Frame (electronics table)	Openbuilds 2040x580mm extrusion			Ooznest Ooznest				
Frame (electronics table)	Openbuilds 2020x200mm extrusion		1	Ooznest				
Frame (electronics table)	Angled corner connector 2020	12	2	Aliexpress				
Electronics (main)	Nema 23 motor 23HP22-2804S / 2303HS200AW /	3	3	Ooznest				
E	LDO-57STH56-2804AC Omron SS-5GL micro switch			D1 1				
Electronics (main)	Omron SS-5GL micro switch Mean Well LRS-350-24 PSU		3	Digikey	A	Aliovarona		
	IEC320 C14 Inlet - Push-fit - w/ Rocker Switch & Fuse			Digikey Digikey	AIIIBZUII	Aliexpress		
Electronics (electronics table)			2	Amazon				
Electronics (electronics table)) Micro SD card	1	1	Amazon				
	Mellow fly e3 / mellow fly CDY V3.0 / BTT E3 RRF	1	1	Fly CDY	Fly E3	BTT E3 RRF	RRF	
Electronics (electronics table)) 22mm E-stop switch actuator	1	1	Amazon				
Electronics (electronics table)	TMC 5160 (3A RMS) TMC 2660 (2.4A RMS)	3		TMC 2209		TMC2660	60 <u>DRV8825</u>	
Motion (main)	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)		IMC 5160	TIMOZOGO		
	XY gantry plate	1	(Can be printed)	Fabreeko	<u>IMC 5160</u>	111102000		
Motion (main)	XY gantry plate Z gantry plate		CUITETI()	Fabreeko Fabreeko	IMC 5160	11102000		
Motion (main) Motion (main)	XY gantry plate Z gantry plate 200mm GT2 closed loop belt	1	(Can be printed)	Fabreeko Fabreeko Aliexpress	IMC 5160	TIMOZOGO		
Motion (main)	XY gantry plate Z gantry plate	1	(Can be printed)	Fabreeko Fabreeko Aliexpress CNA	IMC 5160	TIMOZOGO		
Motion (main) Motion (main) Motion (main) Motion (main) Motion (main) Motion (main)	XY gantry plate Z gantry plate Z gantry plate Z00mm GT2 closed loop belt MGN15 rail 350mm MGN15 rail 250mm MGN15 rail 500mm	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(Can be printed)	Fabreeko Aliexpress CNA (Don't	IMC S150	TIMOLOGO		
Motion (main)	XY gantry plate Z gantry MGN15 rail 350mm MGN15 rail 250mm MGN15 rail 50mm MGN15 rail 50mm MGN15 rail 50mm	11 12 2 2 2 2 11 11	(Can be printed) (Can be printed) (Can be printed)	Fabreeko Fabreeko Allexpress CNA (Don't mix/match. suppliers)	IMC S150	Timozoo		
Motion (main)	XY gantry plate 2 gantry plate 2 gantry plate 200mm GT2 dosed loop belt MGN15 rail 550mm MGN15 rail 550mm MGN15 rail 500mm MGN15 rail canden MGN15 rail canden MGN15 rail content MGN15 rail 500mm	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Can be printed) (Can be printed) (Can be printed)	Fabreeko Fabreeko Aliexpress CNA (Don't mix/match suppliers) Aliexpress	IMC S160	INCESCO		
Motion (main)	XY gantry plate 20mm GT2 closed loop belt MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 500mm MGN15 rail 500mm MGN15 rail 500mm MGN15C rail 600mm MGN15C rail 600mm TR&d 4 start leadscrew 550mm (min) TR&d 4 start leadscrew 550mm (min)	1 1 2 2 2 2 2 1 1 1	(Can be printed) (Can be printed) (Can be printed)	Eabreeko Eabreeko Allexpress CNA (Don't miximatch suppliers) Allexpress Allexpress	IMC 5160			
Motion (main)	XY gantry plate Z gantry plate Z gantry plate Z gantry plate Z gomm GTZ dosed loop belt MGN15 rail S0mm MGN15	12 2 2 2 12 12 1	(Can be printed) (Can be printed) (Can be printed)	Eabreeko Fabreeko Aliexpress CNA (Don't mix/match suppliera) Aliexpress Aliexpress Aliexpress	IMC 5160			
Motion (main)	XY gantry plate 20mm GT2 closed loop belt MGN15 rail S0mm MGN15C rail Compa TR&64 d start leadscrew 50mm (min) TR&64 d start leadscrew 50mm (min) TR&64 start leadscrew 50mm (min) TR&64 start leadscrew 50mm	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(Can be printed) (Can be printed) (Can be printed)	Eabreeko Fabreeko Aliexpress CNA (Dontinizimatch suppliers) Aliexpress Aliexpress Aliexpress Aliexpress Amazon	IMC 5160			
Motion (main)	XY gantry plate Z gantry plate Z gantry plate Z gantry plate Z gomm GT2 closed loop belt MGN15 rail S50mm MGN15 rail S50mm MGN15 rail S00mm MGN15 rail scaraige TR8x8 4 start brassices S50mm (min) TR8x8 4 start brassices word min) TR8x8 4 start brassices word min) TR8x8 4 start brassices word rail rail rail rail rail rail rail rail	111111111111111111111111111111111111111	(Can be printed) (Can be printed) (Can be printed)	Fabreeko Fabreeko Allexpress CNA (Don't mix/match suppliers) Allexpress	IMC S160			
Motion (main)	XY gantry plate 20mm GT2 closed loop belt MGN15 rail S0mm MGN15C rail Compa TR&64 d start leadscrew 50mm (min) TR&64 d start leadscrew 50mm (min) TR&64 start leadscrew 50mm (min) TR&64 start leadscrew 50mm	2 2 2 11 11 11 11 11 11 11 11 11 11 11 1	(Can be printed) (Can be printed) (Can be printed)	Fabreeko Aliexpress CNA (Don't mix/match suppliers) Aliexpress Aliexpress Aliexpress Amazon Ooznest Amazon	IMC S169			
Motion (main)	XY gartry plate 2 gartry plate 20mm GT2 closed loop belt MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 500mm	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	(Can be printed) (Can be printed) (Can be printed)	Eabreeko Fabreeko Allexoress CNA (Don't mix/match supplieral Allexoress Allexpress Allexpress Amazon Ooznest Amazon Allexpress Allexpress Allexpress Allexpress Allexpress Allexpress Allexpress Allexpress Allexpress	IMCS180			
Motion (main)	XY gantry plate 200mm GT2 closed loop belt MGN15 rail 350mm MGN15 rail 250mm MGN15 rail 250	1 1 2 2 2 11 1 1 1 1 8	(Can be printed) (Can be printed) (Can be printed)	Eabreeko Fabreeko Aliexpress CNA (Don't mix/match, suppliera) Aliexpress Aliexpress Amazon Oczest Amazon Aliexpress Aliexpress Aliexpress Aliexpress Aliexpress Aliexpress Aliexpress Aliexpress Aliexpress	IMCS180			
Motion (main)	XY gantry plate 2 gantry plate 2 gantry plate 200mn GT2 closed loop belt MGN15 rail 250mm M	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(Can be printed) (Can be printed) (Can be printed)	Eabreeko Fabreeko Allexoress CNA (Don't mix/match supplieral Allexoress Allexpress Allexpress Amazon Ooznest Amazon Allexpress Allexpress Allexpress Allexpress Allexpress Allexpress Allexpress Allexpress Allexpress	IMCS180			
Motion (main)	XY gantry plate 200mm GT2 closed loop belt MGN15 rail 500mm MGN15 rail 500	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Can be promid)	Eabreeko Fabreeko Alisozeesa CNA (Dont. miximatch. miximatch. miximatch. Alisozeesa Alisozeesa Alisozeesa Amazon Alisozeesa Amazon Alisozeesa Anisozeesa Anisozeesa Anisozeesa Anisozeesa Anisozeesa Anisozeesa Alisozeesa Alisozeesa Alisozeesa Alisozeesa Accou	IMCS180			
Motion (main)	XY gantry plate 2 gantry plate 2 gantry plate 200mm GT2 closed loop belt MGN15 rail 250mm M		Clan be promoted (Clan be promoted) (Clan be promoted) 2 2 2 2 2 3 3 3 4 4 2 5 5	Eatracko Eatracko Allexoreas CNA (Don't maymath, suppliera) Allexoreas	IMC 5180			
Motion (main)	XY gantry plate 200mm GT2 closed loop belt MGN15 rail 500mm MGN15 rail 500	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(Can be promid)	Eabreeko Fabreeko Alisozeesa CNA (Dont. miximatch. miximatch. miximatch. Alisozeesa Alisozeesa Alisozeesa Amazon Alisozeesa Amazon Alisozeesa Anisozeesa Anisozeesa Anisozeesa Anisozeesa Anisozeesa Anisozeesa Alisozeesa Alisozeesa Alisozeesa Alisozeesa Accou	IMC 5180			
Motion (main)	XY gantry plate Z gantry plate Zohmm GT2 dosed loop belt MGN15 rail Sömm MGN15	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Clan be promoted (Clan be promoted) (Clan be promoted) 2 2 2 2 2 3 3 3 4 4 2 5 5	Eatracko Eatracko Allexoreas CNA (Don't maymath- suppliera) Allexoreas	IMC 5180			
Motion (main) Mo	XY gartry plate 2 gartry plate 2 gartry plate 2 comm GT2 closed loop belt MGN15 rail 350mm MGN15 rail 500mm	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(Can be promid)	Eatracko Eatracko Allexoreas CNA (Don't maymath- suppliera) Allexoreas	IMC S180			
Motion (main) Mo	XY gantry plate 200mm GT2 closed loop belt MGN15 rail 350mm MGN15 rail 250mm MGN15 rail 250	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Con the promoted (Con the promoted) (Con the promoted) 2 2 2 2 2 3 3 4 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7	Estresho Fatresho Allescress CNA (Dont, marmatch, suppliera) Allescress	IMCS180			
Motion (main) Mo	XY gartry plate 20 gartry gartry MGN15 rail 350mm MGN15 rail 250mm MGN15 rail	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(Care to promise) (Care to pro	Eabresto Fatresto Alterpress CNA (Dont Marieman Lond Marieman Alterpress Acqu	IMC S180			
Motion (main) Mo	XY gartry plate 20 gartry gartry MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 500mm MGN15 rail	1 1 1 1 1 1 1 1 1 1	(Care to promise) (Care to pro	Estresho Fatresho Allescress CNA (Dont, marmatch, suppliera) Allescress	IMC S180			
Motion (main) Cables (main)	XY gantry plate 20mm GT2 closed loop belt MGN15 rail 50mm MGN1	ST-FVDDF 1 ST-FVDDF 1 ST-FVDDF 1 ST-FVDDF 1 ST-FVDF 1 ST-FVDF	Con the promotion (Con the promotion) (Con the	Estresko Fatresko Allescress CNA (Dont Mammatch Suppliera) Allescress Allescress Ansacon Ansacon Ansacon Amazon Amazon Amazon Amazon Amazon	IMC S180			
Motion (main) Cables (main)	XY gartry plate 20mm GT2 closed loop belt MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 250mm MGN15 rail 250m	1 1 1 1 1 1 1 1 1 1	(Can be promid)	Eabcresto Allescress CNA (Dord, Mismatch Saudilland Allescress Allescress Allescress Allescress Allescress Allescress Allescress Allescress Allescress Ansaco Coznesi Amazon	IMCS180			
Motion (main) Cables (main) Misc	XY gantry plate 200mm GT2 closed loop belt MGN15 rail S00mm TR8:84 start leadscrew 550mm (min) TR8:84 start leadscrew 550mm (min) TR8:84 start leadscrew 500mm (min) TR8:84 start leadscrew 500mm (min) TR8:84 start leadscrew 100mm (m	ST-FVDDF 1 ST-FVDDF 1 ST-FVDDF 1 ST-FVDDF 1 ST-FVDF 1 ST-FVDF	(Can be promat)	Estresko Fatresko Allescress Chi M (Don) Mariath Suppliera) Allescress Allescress Allescress Allescress Allescress Accul EysEtG Amazon	IMCS182			
Motion (main) Cables (main)	XY gartry plate 20mm GT2 closed loop belt MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 350mm MGN15 rail 250mm MGN15 rail 250m	JST-FVDDF 11 JST-FVDDF 11 JST-SVDF 11 JST-XH 3	(Can be promid)	Estresko Fatresko Allescress Chi M (Don) Mariath Suppliera) Allescress Allescress Allescress Allescress Allescress Accul EysEtG Amazon	IMC 5180			