| 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 | M2.5x12 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 | | 8 | | Aliexpress | | | |
| Electronics (main) | Nema 23 motor 23HP22-2804S / 2303HS200AW / LDO-57STH56-2804AC | | 3 | | Ooznest | DFH | | |
| 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 (recommended) | Fly E3 | BTT E3 RRF | |
| Electronics (electronics table) | 22mm E-stop switch actuator | | 1 | | Amazon | | | |
| Electronics (electronics table) | TMC 2209 (2A RMS)<br>TMC 5160 (3A RMS)<br>TMC 2660 (2.4A RMS)<br>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 | | ; | | | |
| Motion (main) | MGN15 rail 500mm | | 2 | | (Don't mix/match suppliers) | | | |
| 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 | | | |