

Part	Product Name	Quantity	Source	Manufacturer ID	Cost/Item	Total Cost	Category	
M5 Screws	Nylon Pan Head Phillips Screws M5 x 0.80 mm Thread, 8mm Long, Black	1	McMaster	92492A735	\$ 10.91	\$ 15.27	Fasteners	1.4
M5 Screws	Nylon Pan Head Phillips Screws M5 x 0.80 mm Thread, 10mm Long, Black	1	McMaster	92492A736	\$ 10.97	\$ 15.36	Fasteners	
T-Slot Nut	T-Slotted Framing End-Feed Single Nut, M5 Thread, for 20 mm Single Rail	4	McMaster	5537T651	\$ 3.73	\$ 20.89	Fasteners	
Dowel Pin	18-8 Stainless Steel Dowel Pin 4 mm Diameter, 45 mm Long	1	McMaster	91585A537	\$ 8.21	\$ 11.49	Fasteners	
T-Slot Bracket	3-Way Corner Bracket for 20 mm High Single Rail	8	McMaster	5537T289	\$ 10.32	\$ 115.58	Fasteners	
Rubber Bumpers	Load-Rated Threaded Bumper Rubber, Steel Base, M4 x 0.7 mm Thread, 10 mm OD, 10 mm Hig	4	McMaster	93115K371	\$ 1.88	\$ 10.53	Fasteners	
M3 Screws	Black-Oxide Alloy Steel Socket Head Screw M3 x 0.5 mm Thread, 10 mm Long (100 Pack)	1	McMaster	91290A115	\$ 7.62	\$ 10.67	Fasteners	
M4 Screws	Black-Oxide Alloy Steel Socket Head Screw, M4 x 0.7 mm Thread, 15 mm Long (5 Pack)	1	McMaster	91290A306	\$ 10.74	\$ 15.04	Fasteners	
M3 Inserts	Brass Screw-to-Expand Inserts for Plastic, M3 x 0.50 mm Thread Size	1	McMaster	94510A030	\$ 10.63	\$ 14.88	Fasteners	
Acrylic sheet	Cast Acrylic Sheet 12" x 48" x 3/16", White	1	McMaster	8505K749	\$ 33.14	\$ 46.40	Structural	
Aluminum extrusion	T-Slotted Framing Single Four Slot Rail, Silver, 20 mm Square, Solid, 4' Long	3	McMaster	5537T101	\$ 13.52	\$ 56.78	Structural	
Gasket	Oil-Resistant Aramid/Buna-N Gasket Material 15" x 15" Sheet, 1/64" Thick	1	McMaster	9470K36	\$ 10.73	\$ 15.02	Sealing	
Gasket Tape	Gasket Tape 0.02" Thick, 1/2" Wide, 50 Feet Long	1	McMaster	9477K21	\$ 41.08	\$ 57.51	Sealing	
Rubber Sheet	Ultra-Strength Oil-Resistant Buna-N Rubber Sheet, 12" x 24", 1/64" Thick	1	McMaster	8969K701	\$ 9.80	\$ 13.72	Sealing	
O-Ring	Oil-Resistant Buna-N O-Ring 1/16 Fractional Width, Dash Number 045	0	McMaster	9452K134	\$ 11.25	\$ -	Sealing	
O-Ring	Oil-Resistant Buna-N O-Ring 1/16 Fractional Width, Dash Number 046	1	McMaster	9452K71	\$ 4.94	\$ 6.92	Sealing	
Nylon Sealing Bushing	Light Duty Dry-Running Nylon Sleeve Bearing	1	McMaster	6389K234	\$ 1.26	\$ 1.76	Sealing	
Rotary Seal	Shaft-Mounted Rotary Seal	1	McMaster	9562K42	\$ 3.59	\$ 5.03	Sealing	
Oxygen Control Needle Valve	Easy-Set Precision Flow-Adjustment Valve Plastic, 1/4 NPTF Female	1	McMaster	4891K72	\$ 4.20	\$ 5.88	Plumbing	
Pressure-Relief Valve (1 PSI)	Pressure-Relief Vent Zinc-Plated Steel, 1/8" PTF, 1/2" Overall Height, 1/4 to 1 PSI	1	McMaster	1093K11	\$ 2.49	\$ 3.49	Plumbing	
Oxygen Sensor	Specialty O2 Sensors for Analyzers	1	Dive Gear Express	PSR-11-xx	\$ 75.00	\$ 105.00	Sensors	
Flow Sensor	Gas Flow Sensor ±250 SLPM Plastic	1	DigiKey	SFM3300-250-D	\$ 70.36	\$ 70.36	Sensors	
Pressure Sensor	Pressure Sensor ±1PSI (±6.89kPa) Differential Male - 0.1" (2.47mm) Tube 0.33 V ~ 2.97 V 8-DIF	1	DigiKey	480-5420-ND	\$ 61.74	\$ 61.74	Sensors	
Switches	Washdown Toggle Switch, 2 Position, Rounded, NEMA 4, Maintained, DPST-NO	1	McMaster	8002K77	\$ 17.34	\$ 24.28	Electronics	
Battery	Sealed Large-Cell Battery for Continuous Use Lead Acid, Quick-Disconnect Tab, 12V, 1.4 Amp-H	1	McMaster	7448K17	\$ 24.44	\$ 34.22	Electronics	
Stepper Motor	Bipolar Stepper Motor Hybrid Frame Size 17 200 Step 1.7A 3.4VDC	1	DigiKey	1738-1036-ND	\$ 22.88	\$ 22.88	Electronics	
Arduino Mega	ARDUINO MEGA2560 ATMEGA2560	1	DigiKey	1050-1018-ND	\$ 58.71	\$ 58.71	Electronics	
Cooling Fan	FAN AXIAL 80X15MM 12VDC WIRE	1	DigiKey	P13498-ND	\$ 14.24	\$ 14.24	Electronics	
Servo Motor	SERVOMOTOR RC 4.8-6V HITEC HS422	1	DigiKey	1738-1456-ND	\$ 25.25	\$ 25.25	Electronics	
Raspberry Pi	Raspberry Pi 4 Computer Model B 4GB V1.2	1	Amazon	https://www.ama	\$ 89.00	\$ 89.00	Electronics	
Touch-Screen Display	7 inch IPS Capacitive Touch Screen Display, 1024x600 Ultra HD LCD HDMI Monitor - (Supports	1	Amazon	https://www.ama	\$ 84.97	\$ 84.97	Electronics	
Electronic Speed Controller	YUNIQUE Canada ® 1 Piece Hobbywing Xrotor 40A Brushless Opto ESC for multicopter	1	Amazon	https://www.ama	\$ 46.99	\$ 46.99	Electronics	
Brushless DC Motor	2200kv Brushless Outrunner Motor W/Mount 6t + 30a ESC RC Motor Brushless Speed Controller	1	Amazon	https://www.ama	\$ 24.99	\$ 24.99	Electronics	
					TOTAL	\$ 1,104.84		