

Bill of Materials		
Printing and Casting		
Item	Count	Purchase
PLA Printer Filament	1	https://www.amazon.com/OVERTURE-Filament-Consumables-Dimensional-Accuracy/dp/B07PGZNM34/
Casting Silicone	~0.5 lbs	https://www.amazon.com/Smooth-Ecoflex-00-50-Platinum-Silicone/dp/B00GJ80HIC
Connections		
Item	Count	Purchase
M3,M5 Bolts		https://www.amazon.com/Hilitchi-510pcs-Stainless-Socket-Assortment/dp/B073SW4S6C
Pop Rivets	4	https://www.amazon.com/Tradespro-836341-Aluminum-Assortment-500-Piece/dp/B003L116P8
Electronics		
Item	Count	Purchase
12v Power Supply	1	https://www.amazon.com/Switching-Universal-Regulated-Transformer-Computer/dp/B07C2WBR1L
Arduino Uno R3 Microcontroller	1	https://www.amazon.com/RoboGets-Compatible-ATmega328P-Microcontroller-Electronics/dp/B01N4LP86I
Optocoupler Board (4+ Channels)	1	https://www.amazon.com/24V-Optocoupler-Voltage-Level-Converter/dp/B06XKSFGXX
Relay Board (4+ Channels)	1	https://www.amazon.com/ELEGOO-Channel-Optocoupler-Arduino-Raspberry/dp/B01HCFJC0Y/
Force Sensitive Resistors	4	https://www.amazon.com/Sensitive-Resistor-Pressure-Diameter-Resistance-Type/dp/B07MP4RL9Q
Breadboard or ProtoBoard	1	https://www.amazon.es/Protoboard-contactos-Breadboard-prototipos-soldadura/dp/B00JGFDKBQ
10k Resistors	4	https://www.taydaelectronics.com/10-x-resistor-10k-ohm-1-4w-5-carbon-film-pkg-of-10.html
Mounting Plate or Project Box	1	
Jumper Cables and Wires		https://www.amazon.com/Elegoo-EL-CP-004-Multicolored-Breadboard-arduino/dp/B01EV70C78
Screw Terminal Block (8 Positions)	1	https://www.amazon.com/a10073000ux0031-Position-Terminal-Covered-Barrier/dp/B00UWVYA30/
Pneumatics		
Item	Count	Purchase
3 Way 2 Position 24 Pneumatic Solenoid	4	https://www.amazon.com/Position-Pneumatic-Electric-Solenoid-Valve/dp/B07YXSWZF4
Air Compressor	1	https://www.amazon.com/AstroAI-Portable-Compressor-Inflator-Protection/dp/B078LYX5YE
6mm Pneumatic Tubing	~6m	https://www.amazon.com/uxcell-Pneumatic-Polyurethane-Meter-32-8ft/dp/B07859JVCY
6mm Pneumatic Push Connectors	12	https://www.amazon.com/Thread-Straight-Pneumatic-Fitting-Connectors/dp/B07BLRG8SH
6mm Pneumatic Splitter	2	https://www.amazon.com/Sydien-Connect-Pneumatic-Fittings-Splitter/dp/B07H14PVW2/

Tools		
Item		
Syringe		
Soldering Iron		
Wire STrippers		
Tweezers		
Screwdriver		
Allen Wrenches		
3d Printer		