RBE 200x Kit (Foisie 2018)

1.0 Unit(s)

Cost Structure

Raw Materials	Quantity	Unit Cost	Total Cost
Small BreadBoard	1.0 Unit(s)	$ 4.50	$ 4.50
0.5 Ohm Resistor	1.0 Unit(s)	$ 0.94	$ 0.94
22 Ohm Resistor	1.0 Unit(s)	$ 0.01	$ 0.01
91 Ohm Resistor	6.0 Unit(s)	$ 0.01	$ 0.06
330 Ohm Resistor	1.0 Unit(s)	$ 0.01	$ 0.01
1k Ohm Resistor	4.0 Unit(s)	$ 0.01	$ 0.04
2.2k Ohm Resistor	1.0 Unit(s)	$ 0.01	$ 0.01
4.7K OHM 1/4W 5% AXIAL	1.0 Unit(s)	$ 0.01	$ 0.01
10k Ohm Resistor	3.0 Unit(s)	$ 0.01	$ 0.03
68k Ohm Resistor	2.0 Unit(s)	$ 0.01	$ 0.02
100k Ohm Resistor	1.0 Unit(s)	$ 0.01	$ 0.01
10k Breadboard Potentiometers	3.0 Unit(s)	$ 2.90	$ 8.70
1 uF Capacitor	1.0 Unit(s)	$ 0.27	$ 0.27
10 uF Capacitor	1.0 Unit(s)	$ 0.24	$ 0.24
2mH Inductor	1.0 Unit(s)	$ 0.72	$ 0.72
Diode	1.0 Unit(s)	$ 0.01	$ 0.01
LED - Super Brights	1.0 Unit(s)	$ 0.95	$ 0.95
NPN Transistor 2N2222A	1.0 Unit(s)	$ 2.23	$ 2.23
Single Contact Relay	1.0 Unit(s)	$ 2.95	$ 2.95

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Lm 358 Op Amp	1.0 Unit(s)	$ 0.47	$ 0.47
MC1458 Op Amp	1.0 Unit(s)	$ 0.57	$ 0.57
IC OPAMP INSTR 1MHZ 8DIP	1.0 Unit(s)	$ 11.26	$ 11.26
RIB: Robot Interface Board Assembly	1.0 Unit(s)	$ 36.85	$ 36.85
USB extension Cable A Female to A Male (1.00m)	1.0 Unit(s)	$ 2.57	$ 2.57
SparkFun Load Cell Amplifier - HX711	1.0 Unit(s)	$ 9.95	$ 9.95
Pololu IR Line Tracker QTR-8A Reflectance Sensor Array	2.0 Unit(s)	$ 9.95	$ 19.90
LV-MaxSonar-EZ1 Ultrasonic maxbotics	1.0 Unit(s)	$ 25.95	$ 25.95
Sharp Infrared Range Finder	1.0 Unit(s)	$ 13.95	$ 13.95
IR POSITIONING CAMERA	1.0 Unit(s)	$ 23.79	$ 23.79
BREAKOUT BOARD 9-DOF IMU BNO055	1.0 Unit(s)	$ 34.95	$ 34.95
12V Pololu 50:1 GearMotor 12V with Encoder	1.0 Unit(s)	$ 38.95	$ 38.95
Pololu MC33926 H-Bridge Motor Driver Carrier	3.0 Unit(s)	$ 17.95	$ 53.85
Voltage Regulated Servo	1.0 Unit(s)	$ 18.24	$ 18.24
Self-Adjusting Wire Stripper & Cutter	1.0 Unit(s)	$ 19.97	$ 19.97
Hex Key 2.5 mm	1.0 Unit(s)	$ 0.80	$ 0.80
Hex Key 4 mm	1.0 Unit(s)	$ 0.16	$ 0.16
RBE 2001 Four Bar Lab Kit	1.0 Unit(s)	$ 111.39	$ 111.39
100 uF Capacitor	1.0 Unit(s)	$ 0.24	$ 0.24

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USB extension Cable A Female to A Male (1.00m)	1.0 Unit(s)	$ 2.57	$ 2.57
LOGIC LEVEL CONVERTER - BI-DIREC	2.0 Unit(s)	$ 2.95	$ 5.90
Hook-up Wire - Black (22 AWG)	1.0 Unit(s)	$ 2.50	$ 2.50
Hook-up Wire - White (22 AWG)	1.0 Unit(s)	$ 2.50	$ 2.50
Hook-up Wire - Red (22 AWG)	1.0 Unit(s)	$ 2.50	$ 2.50
22-24AWG Wire Wrap Tool	1.0 Unit(s)	$ 12.99	$ 12.99
Wire Wrap Tool for 28 Gauge and 30 Gauge	1.0 Unit(s)	$ 19.99	$ 19.99
Copper Wire 30 AWG gauge Cable Roll (8 Colors) wire wrap	1.0 Unit(s)	$ 9.99	$ 9.99
RBE 2000 BaseBot	1.0 Unit(s)	$ 27.67	$ 27.67
Zip Tie Adhesive Cable Tie Mount	13.0 Unit(s)	$ 0.07	$ 0.91
1uF capacitor 0402	1.0 Unit(s)	$ 0.31	$ 0.31
Zip Ties	22.0 Unit(s)	$ 0.02	$ 0.44
Break Away Strip Male Headers 17mm Long Pins	1.0 Unit(s)	$ 1.40	$ 1.40
JUNK	5.0 cm	$ 0.36	$ 1.80
Strain gauge Load Cell - 0.5kg, Straight Bar	1.0 Unit(s)	$ 9.95	$ 9.95
Pair Emitters/Detector IR Infrared	1.0 Unit(s)	$ 1.95	$ 1.95
12V 3AH Sealed Lead Acid Battery	1.0 Unit(s)	$ 13.99	$ 13.99
12V Sealed Lead Acid (SLA) Battery Charger 1300mA	1.0 Unit(s)	$ 24.99	$ 24.99
Jumper Wire Kit - 140pcs	1.0 Unit(s)	$ 5.95	$ 5.95

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TDOK TD-109 Wire Cutter Flush Cut	1.0 Unit(s)	$ 7.99	$ 7.99
Measuring Tape	1.0 Unit(s)	$ 4.58	$ 4.58
Total Cost of Raw Materials			**$ 606.39**