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| Assembly | Item | Qty Descrption | Cost/ea | Cost x Qty | Vendor |
|----------|------|---|---------|------------|-----------------|
| X Gantry | 1 | 2 Nema 17 Stepper Motor 5mm Dia Shaft (20mm length) | \$10.00 | \$20.00 | ebay |
| | 2 | 8 M3x10mm hex screws | \$0.05 | \$0.40 | McMaster |
| | 3 | 4 M5x60mm threaded screw | \$0.60 | \$2.40 | McMaster |
| | 4 | 2 M5x80mm partially threaded screw | \$0.80 | \$1.60 | McMaster |
| | 5 | 2 M5 Shaft coupler | \$7.50 | \$15.00 | ebay |
| | 6 | 6 16mm Dia Flange bearing 5mm bore | \$0.80 | \$4.80 | ebay |
| | 7 | 3 GT2 Pulley 20tooth Count, 5mm bore | \$3.80 | \$11.40 | ebay |
| | 8 | 1 3D printer idler pulley | \$0.00 | \$0.00 | retrobuiltgames |
| | 9 | 1 Body of balpoint pen | \$0.00 | \$0.00 | |
| | 10 | 6 M5 Nylon lock nuts | \$0.70 | \$4.20 | McMaster |
| | 11 | 1 GT2 Belt, 260 lenth | \$4.00 | \$4.00 | ebay |
| | 12 | 2 Custom Acrylic plates | \$0.00 | \$0.00 | |
| | 13 | 1 Stepper Wheel mount 5mm bore | \$4.50 | \$4.50 | Pololu |
| | 14 | 1 3Ft Nylon string | \$0.50 | \$0.50 | HomeDepot |
| | 15 | 6 M5 washers | \$0.08 | \$0.48 | |
| | 16 | 1 M5x30 Bolt | \$0.30 | \$0.30 | |
| Claw | 17 | 1 Wood parts kit | \$0.00 | \$0.00 | |
| | 18 | 1 Servo Motor, 180 rotation | \$12.00 | \$12.00 | Adafruit |
| | 19 | 2 18" servo extension cable | \$3.00 | \$6.00 | ebay |
| | 20 | 6 #6-32 x 1" bolt | \$0.06 | \$0.36 | |
| | 21 | 7 #6-32 nylon lock nut | \$0.05 | \$0.35 | |
| | 22 | 2 #6-32 x 0.75" bolt | \$0.09 | \$0.18 | |
| | 23 | 3 #6-32 nuts | \$0.03 | \$0.09 | |
| | 24 | 3 #6-32 lock washers (split ring) | \$0.02 | \$0.06 | |
| | 25 | 6 #6-32 SAE washer | \$0.03 | \$0.18 | |
| | 26 | 3 Flat washers (optional) | \$0.20 | \$0.60 | |
| Y Ganty | 27 | 2 Nema 17 Stepper Motor 5mm Dia Shaft (20mm length) | \$10.00 | \$20.00 | ebay |
| | 28 | 8 M3x10mm hex screws | \$0.05 | \$0.40 | |
| | 29 | 2 Nylon bearing shower door wheels | \$2.50 | \$5.00 | HomeDepot |
| | 30 | 8 #8-32 x0.5" truss head screws | \$0.06 | \$0.48 | |
| | 31 | 8 #8 nuts | \$0.03 | \$0.24 | |
| | 32 | 6 #8 split ring lock washers | \$0.01 | \$0.06 | |
| | 33 | 6 Nickel plated brackets, 90degree | \$0.50 | \$3.00 | McMaster |
| | 34 | 6 M4x12mm screws hex head | \$0.10 | \$0.60 | Misumi |
| | 35 | 6 T inserts for 30x30mm extrusion | \$0.33 | \$1.98 | Misumi |
| | 36 | 2 GT2 Pulley 20tooth Count, 5mm bore | \$3.80 | \$7.60 | ebay |
| | 37 | 1 30x30mm Al extrusion, 20.25" length | \$8.00 | \$8.00 | Misumi |

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| | | | | \$460.82 | |
|---------|----|--|---------|----------|----------|
| | 64 | 4 Terminal Blocks (6x1) 0.1" pitch, spring lock | \$1.50 | \$6.00 | Newark |
| | 63 | 1 Adruino Uno Proto- Sheild | \$3.20 | \$3.20 | ebay |
| | 62 | 1 Protoboard | \$7.20 | \$7.20 | Adafruit |
| | 61 | 2 LED Red | \$0.10 | \$0.20 | ebay |
| | 60 | 4 18 Pin DIP socket | \$0.28 | \$1.12 | Newark |
| | 59 | 1 Tip 120 Darington Power Transistor 3A peak | \$1.20 | \$1.20 | Newark |
| | 58 | 4 ULN2803 darlington array DIP | \$1.12 | \$4.48 | Newark |
| | 57 | 1 40 wire x 30cm Female/Female jumper wire | \$7.30 | \$7.30 | |
| | 56 | 10 1ft wire | \$0.30 | \$3.00 | |
| | 55 | 1 5K potentiometer, 270degree turn 6mm shaft | \$5.20 | \$5.20 | |
| | 54 | 1 Arduino Mega (generic brand) | \$15.00 | \$15.00 | |
| Circuit | 53 | 1 LCD 4x20 | \$12.00 | \$12.00 | |
| | 52 | 4 Nickel plated brackets, 90degree | \$0.50 | \$2.00 | |
| | 51 | 8 #8 split ring lock washers | \$0.01 | \$0.08 | |
| | 50 | 8 #8 washer | \$0.02 | \$0.16 | |
| | 49 | 8 #8 nut | \$0.03 | \$0.24 | |
| | 48 | 4 #8 x 1.25" screw Round head | \$0.12 | \$0.48 | |
| | 47 | 3 Arcade pushbutton 28mm dia | \$2.00 | \$6.00 | |
| | 46 | 1 Happ Joystick | \$15.00 | \$15.00 | |
| | 45 | 1 Coin Acceptor 0.25 denomination | \$29.00 | \$29.00 | |
| | 44 | 10 1Sq ft 0.25 Maple Plywood | \$0.82 | \$8.20 | |
| | 43 | 70 M4 x 12mm hex head screws | \$0.10 | \$7.00 | |
| | 42 | 70 M4 Tinserts | \$0.40 | \$28.00 | |
| | 41 | 48 M6 T insertes | \$0.40 | \$19.20 | |
| | 40 | 48 M6x12mm hex head screws | \$0.15 | \$7.20 | |
| | 39 | 24 30x30mm All brackets (90 degrees) | \$0.90 | \$21.60 | |
| Frame | 38 | 19 Linear ft Aluminum Extrusion 30x30mm cross-section (16x20" frame) | \$6.00 | \$114.00 | Misumi |