

ArduLift Bill of Materials

Lift Mechanism

Item	Name	Type	Material	Quantity	Source	Comment
1	Support Rods	10mm x	tool steel	2	Ebay, Amazon	
2	Linear Bearings	10mm		4	Ebay, Amazon	
3	snap rings	.75 inch outside	steel	8	Harbor Freight	
4	travel nut	.75 inch thick	HDPE	1	various	1x3 inch piece
5	router clamps	.75 inch thick	Baltic Birch Plywood	2	various	
6	Acme rod	3/8 – 12 tpi	steel	1	McMaster-Carr	
7	Clamp bolts	¼ x 2 inch	steel	2	BBHS	with washers and nylok nuts
8	assembly bolts	¼ x 3.5 inch	steel	2	BBHS	with washers and nylok nuts
9	Stepper Motor	Bipolar 4 or 6 wire		1	various	
10	Motor shaft adapter		steel	1	various	to fit 3/8 Acme rod and 1/4 motor shaft

Control Box

1	Arduino	Uno		1	Ebay, Amazon	
2	Stepper Driver	TB6600		1	Ebay, Amazon	
3	Power Supply	12 volt 5 amp		1	Ebay, Amazon	
4	pushbutton switch	SPST momentary		3	Ebay, Amazon	
5	toggle switch	SPST		1	Ebay, Amazon	
6	potentiometer	10K linear taper		1	Ebay, Amazon	
7	LCD display	4x20 character	w/serial I2C interface	1	Ebay, Amazon	
8	resistor	600 ohm		2	Ebay, Amazon	
9	LED	5mm		2	Ebay, Amazon	
12	limit switch	roller type	w/ NO and NC tabs	2	Ebay, Amazon	
13	longer sides	.75 x 2.75 x 8 in.	oak	2	BBHS	
14	shorter sides	.75 x 2.75 x 11.25 in	oak	2	BBHS	
15	panels	10.5 x 7.25 in	Lexan	2	BBHS	

Probe (optional)

1	pushbutton switch	SPST momentary		1	Ebay, Amazon	
2	plug	3 conductor		1	Ebay, Amazon	¼ inch diameter
3	jack	3 conductor		1	Ebay, Amazon	¼ inch diameter
4	project box		die cast aluminum	1	Ebay, Amazon	
5	wire, screws, etc.				various	